

Supplementary Material for "Fundamental Equation of State for Fluid Tetrahydrofuran"

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This supplemental material provides a Table of all selected homogeneous density publications including average absolute relative deviations (AARD) calculated with the present equation of state (EOS), and deviation plots of all considered density data in temperature and pressure intervals.

1 Homogeneous Density AARD Table

Table 1: Data summary and average absolute relative deviations (AARD) of experimental data for homogeneous densities in the liquid phase from the EOS. Clear outliers were not considered in the calculation of the AARD.

Reference	Year	No. of Data	T / K	p / MPa	AARD / %
Acevedo et al. [1]	2001	1	298.15	0.101325	0.012
Afanasyev and Zyatkova [2]	1996	3	283–314	0.101325	0.19
Almasi [3]	2018	4	298–314	0.101325	0.014
Amigo et al. [4]	1993	1	298.15	0.101325	0.006

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Table 1 continued

Reference	Year	No. of Data	T / K	p / MPa	AARD / %
Aminabhavi and Gopalakrishna [5]	1995	1	298.15	0.101325	0.033
Aminabhavi and Patil [6]	1998	3	298–309	0.101325	2.3
Aminabhavi et al. [7]	1989	3	298–319	0.101325	0.77
Anantaraman [8]	1986	1	278.15	0.101325	0.034
Aralaguppi et al. [9]	1996	3	298–309	0.101325	0.090
Back and Woolf [10]	1998	45	278–324	0.1–300	0.056
Bandrés et al. [11]	2007	1	298.15	0.101325	0.001
Bandrés et al. [12]	2008	2	298–329	0.101325	0.99
Bandrés et al. [13]	2008	1	298.15	0.101325	0.001
Bardavid et al. [14]	1996	1	298.15	0.101325	0.022
Belandria et al. [15]	2009	9	293–334	0.101325	0.87
Bernazzani et al. [16]	2002	1	298.15	0.101325	0.003
Bhattacharyya et al. [17]	1965	1	298.14	0.101325	0.23
Bourns and Nicholls [18]	1948	1	293.14	0.101325	0.058
Brocos et al. [19]	1996	3	288–309	0.101325	0.009
Carvajal et al. [20]	1965	10	203–299	0.101325	0.61
Chen et al. [21]	2015	7	293–324	0.101325	0.041
Choudhury et al. [22]	2003	5	303–323	0.101325	0.22
Comelli and Francesconi [23]	1991	10	290–304	0.101325	0.19
Comelli and Francesconi [24]	1995	1	298.15	0.101325	0.078
Conti et al. [25]	1994	2	298.15	0.101325	0.013
Conti et al. [26]	1998	1	298.15	0.101325	0.021
Das and Roy [27]	2006	3	298–319	0.101325	0.11
Das et al. [28]	1994	3	298–318	0.101325	0.14
Deshpande et al. [29]	1971	1	298.14	0.101325	0.27
Dhaduk et al. [30]	2015	4	298–313	0.101325	0.030
Fattahi and Iloukhani [31]	2010	3	288–309	0.101325	0.005
Fenclová and Dohnal [32]	1991	1	298.15	0.101325	0.001
Francesconi and Comelli [33]	1992	1	298.15	0.101325	0.038
Francesconi and Comelli [34]	1994	1	298.15	0.101325	0.048
Francesconi and Comelli [35]	1995	1	298.15	0.101325	0.030
Francesconi and Comelli [36]	1995	1	298.15	0.101325	0.031
Francesconi et al. [37]	1992	1	298.15	0.101325	0.019
Francesconi et al. [38]	1993	1	298.15	0.101325	0.021
Francesconi et al. [39]	2006	2	298–309	0.101325	0.009
Gadžurić et al. [40]	2012	5	293–314	0.101325	0.13
Gascón et al. [41]	1999	2	298–314	0.101325	0.006
Gascón et al. [42]	2000	1	298.15	0.101325	0.001
Geppert-Rybczynska and Sitarek [43]	2014	1	298.15	0.1	0.006
Gill et al. [44]	1993	1	298.00	0.101325	0.059
Giner et al. [45]	2006	2	298–314	0.101325	0.004
Giner et al. [46]	2007	2	298–314	0.101325	0.003
Giner et al. [47]	2007	3	298–329	0.101325	0.015

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Table 1 continued

Reference	Year	No. of Data	T / K	p / MPa	AARD / %
Govender et al. [48]	1996	50	288–329	0.1–8.0	0.56
Grolier et al. [49]	1982	1	298.14	0.101325	0.013
Gupta et al. [50]	2003	1	293.00	0.101325	0.23
Hnedkovsky and Cibulka [51]	1986	1	298.14	0.101325	0.020
Holland and Smyth [52]	1955	3	274–314	0.101325	0.14
Ijardar and Malek [53]	2014	7	293–324	0.101325	0.090
Iloukhani et al. [54]	2005	1	298.15	0.101325	0.007
Inglese et al. [55]	1983	3	298–319	0.101325	0.11
Ivanov [56]	2011	5	278–319	0.101325	0.008
Ivanov [57]	2014	9	278–319	0.101325	0.006
Jagodzinski and Petrucci [58]	1974	1	298.14	0.101325	0.013
Jain et al. [59]	1979	1	303.14	0.101325	0.30
Jatkar and Deshpande [60]	1960	7	298–329	0.101325	0.14
Jha et al. [61]	2003	6	298–323	0.101325	0.21
Kalali et al. [62]	1990	1	293.14	0.101325	0.19
Katuno [63]	1948	1	293.14	0.101325	0.10
Kinart et al. [64]	2002	5	291–309	0.101325	0.004
Kiyohara et al. [65]	1979	1	298.14	0.101325	0.005
Klages and Möhler [66]	1948	4	293–354	0.101325	0.19
Knežević-Stevanovic et al. [67]	2013	8	288–324	0.101325	0.74
Knežević-Stevanovic et al. [68]	2014	2	298.15	0.101325	0.041
Komatsu and Masumoto [69]	1930	1	298.14	0.101325	1.7
Koroosi and Kovats [70]	1981	1	293.14	0.101325	0.10
Ku et al. [71]	2008	3	288–309	0.101325	0.031
Kumar [72]	2000	6	288–339	0.101325	1.8
Kushare et al. [73]	2006	1	298.15	0.101325	0.006
Lafuente et al. [74]	2001	1	298.15	0.101325	0.009
Lejcek et al. [75]	1975	1	298.14	0.101325	0.044
Lepori and Matteoli [76]	1986	1	298.14	0.101325	0.020
Letcher and Domanska [77]	1994	1	298.15	0.101325	0.030
Letcher and Domanska [78]	1994	1	298.15	0.101325	0.078
Loras et al. [79]	1999	1	298.15	0.101325	0.011
Loras et al. [80]	2002	2	293–299	0.101325	0.007
Marczak et al. [81]	2008	5	297–314	0.101325	0.023
Mariano et al. [82]	2000	3	283–314	0.101325	0.050
Matous et al. [83]	1972	1	298.14	0.101325	0.021
Matsuda et al. [84]	2011	1	298.15	0.101325	0.004
Metz and Glines [85]	1967	1	298.14	0.101325	0.11
Muhuri et al. [86]	1996	3	298–319	0.101325	0.14
Nain [87]	2006	9	278–319	0.101325	0.14
Nain and Droliya [88]	2017	6	293–319	0.101325	0.13
Naorem and Suri [89]	1989	1	298.14	0.101325	0.010
Nayak et al. [90]	2003	3	298–309	0.101325	0.082
Nayak et al. [91]	2004	3	303–324	0.101325	0.025
Nicolas et al. [92]	1980	7	223–293	0.101325	0.32

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Table 1 continued

Reference	Year	No. of Data	T / K	p / MPa	AARD / %
Nikolic et al. [93]	2005	4	303–319	0.101325	0.051
Nikolic et al. [94]	2006	4	303–319	0.101325	0.051
Nonay et al. [95]	2010	3	283–314	0.101325	0.017
Oshmyansky et al. [96]	1986	2	298–319	0.101325	0.16
Oswal et al. [97]	2005	1	303.15	0.101325	0.024
Oswal et al. [98]	2005	1	303.15	0.101325	0.024
Oswal et al. [99]	2010	3	303–324	0.101325	0.20
Ottani et al. [100]	2002	6	297–308	0.101325	0.015
Ottani et al. [101]	2003	3	288–314	0.101325	0.018
Palani and Geetha [102]	2009	3	303–313	0.101325	0.19
Palani et al. [103]	2009	2	308–313	0.101325	0.12
Pandiyani et al. [104]	2011	3	303–324	0.101325	0.058
Peralta et al. [105]	2003	1	298.15	0.101325	0.066
Peralta et al. [106]	2005	1	298.15	0.101325	0.004
Pérez et al. [107]	2003	3	283–314	0.101325	0.038
Piñeiro et al. [108]	2002	11	293–304	0.101325	0.006
Postigo et al. [109]	2003	3	283–314	0.101325	0.050
Prasad et al. [110]	2005	1	293.15	0.101325	0.19
Qun-Fang et al. [111]	1997	1	293.15	0.101325	0.17
Ramkumar and Kudchadker [112]	1989	5	278–299	0.101325	0.024
Rathnam [113]	1988	1	303.14	0.101325	0.26
Rathnam et al. [114]	2013	3	303–314	0.101325	0.22
Rathnam et al. [115]	2013	4	298–314	0.101325	0.18
Rodnikova et al. [116]	2011	5	293–334	0.101325	0.008
Rodríguez et al. [117]	1996	1	298.15	0.101325	0.009
Rodríguez et al. [118]	1997	1	298.15	0.101325	0.009
Rodríguez et al. [119]	1999	2	298–314	0.101325	0.008
Rodríguez et al. [120]	2000	1	298.15	0.101325	0.009
Rodríguez et al. [121]	2006	1	298.15	0.101325	0.009
Roy et al. [122]	2001	5	298–318	0.101325	0.10
Saleh et al. [123]	2002	5	303–324	0.101325	0.53
Schedemann [124]	2009	459	283–443	0.3–130	0.12
Schornack and Eckert [125]	1970	14	303–324	0.1–517	1.5
Segura et al. [126]	2003	1	298.15	0.101325	0.032
Shelar et al. [127]	2016	4	298–313	0.101325	0.26
Sinha and Roy [128]	2006	3	298–319	0.101325	0.12
Sinha and Roy [129]	2006	3	303–324	0.101325	0.23
Sinha et al. [130]	2013	3	298–319	0.101325	0.12
Smyth and Walls [131]	1932	1	293.14	0.101325	1.0
Solimo and Gomez Marigliano [132]	1993	1	303.15	0.101325	0.15
Surendranath et al. [133]	1992	1	303.15	0.101325	0.30
Suri and Naorem [134]	1987	1	298.14	0.101325	0.010
Taniewska-Osinska et al. [135]	1993	1	298.15	0.101325	0.012
Torres et al. [136]	2008	4	288–304	0.101325	0.006
Vaid et al. [137]	2015	7	293–324	0.101325	0.15

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Table 1 continued

Reference	Year	No. of Data	T / K	p / MPa	AARD / %
Valén et al. [138]	2002	3	283–314	0.101325	0.004
Valén et al. [139]	2002	3	283–314	0.101325	0.004
Valen et al. [140]	2003	3	283–314	0.101325	0.004
Vercher et al. [141]	2011	5	278–319	0.1	0.007
Villares et al. [142]	2004	1	298.15	0.101325	0.009
Vittal Prasad et al. [143]	2004	1	298.15	0.101325	0.81
Wang et al. [144]	2002	1	298.15	0.101325	0.000
Wang et al. [145]	2003	1	298.15	0.101325	0.009
Wankhede et al. [146]	2008	3	288–309	0.101325	0.006
Wankhede et al. [147]	2010	3	288–304	0.101325	0.22
Weissler [148]	1949	1	303.13	0.101325	0.23
Whitehead et al. [149]	1951	1	293.14	0.101325	0.17
Zafarani-Moattar & Majdan-Cegincara [150]	2007	1	298.15	0.101325	0.000
Zikmundova et al. [151]	1990	1	293.14	0.101325	0.60
Živkovic et al. [152]	2014	8	288–324	0.101325	0.049
Zurita et al. [153]	1992	2	298–309	0.101325	0.059

2 Homogeneous Density Deviation Plots

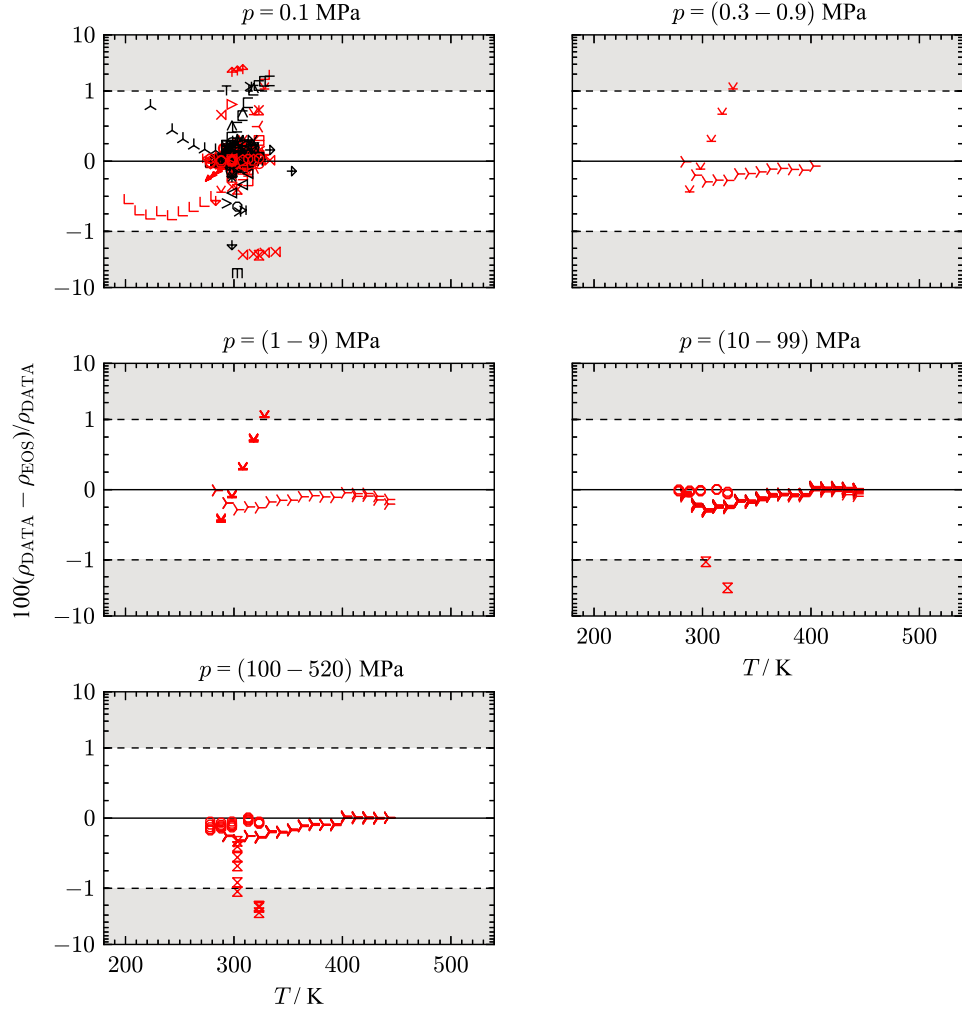


Fig. 1: Percentage relative deviation of density measurements as a function of temperature separated into pressure ranges. See Fig. 3 for symbol referencing.

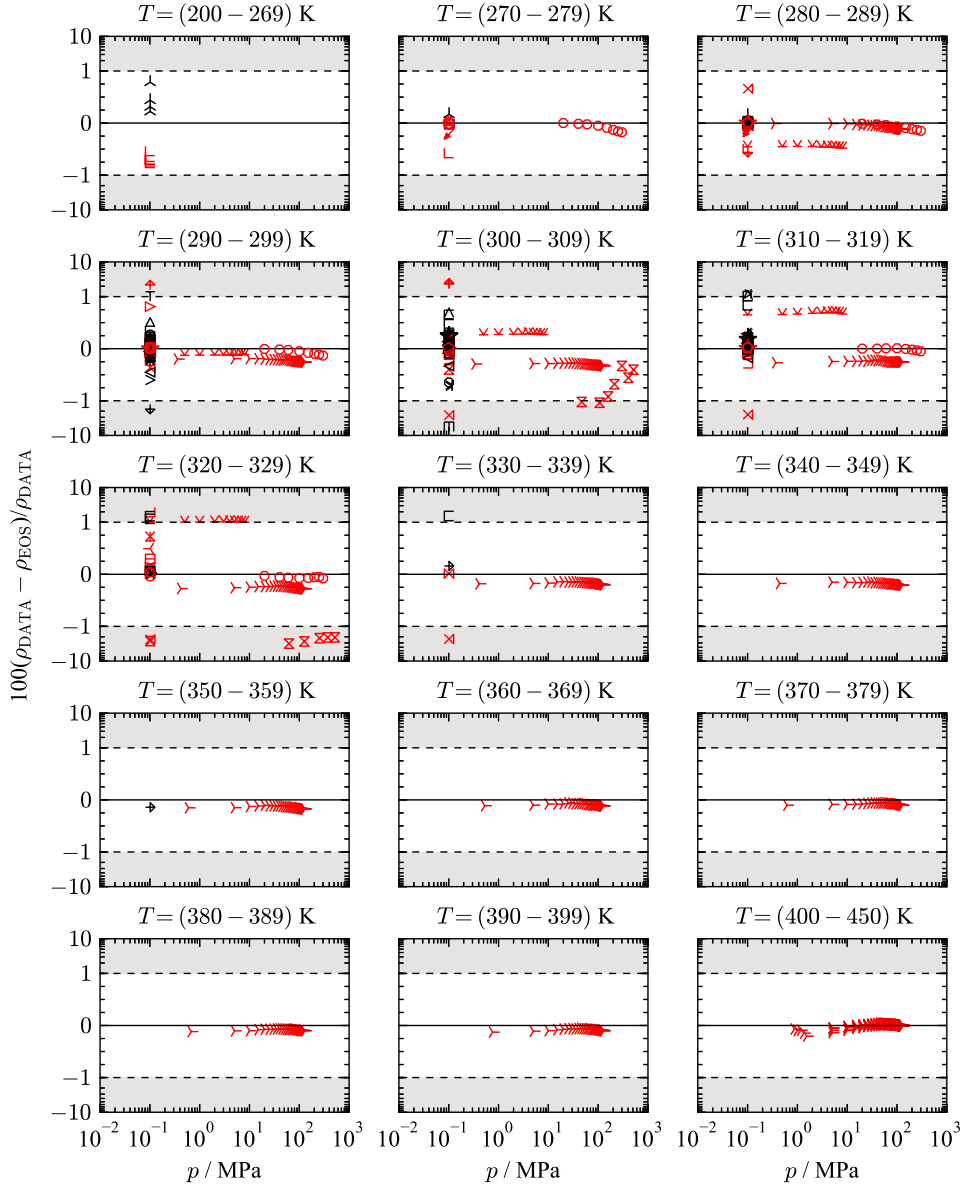


Fig. 2: Percentage relative deviation of density measurements as a function of pressure separated into temperature ranges. See Fig. 3 for symbol referencing.

< Acevedo et al. (2001)	✕ Ijardar and Malek (2014)	◻ Palani and Geetha (2009)
✦ Afanasyev and Zyatkova (1996)	◆ Iloukhani et al. (2005)	◻ Palani et al. (2009)
∇ Almasi (2018)	† Inglesse et al. (1983)	◻ Pandiyan et al. (2011)
∇ Amigo et al. (1993)	− Ivanov (2011)	■ Peralta et al. (2003)
△ Aminabhavi and Gopalakrishna (1995)	⊔ Ivanov (2014)	+ Peralta et al. (2005)
✦ Aminabhavi and Patil (1998)	◆ Jagodzinski and Petrucci (1974)	■ Piñeiro et al. (2002)
^ Aminabhavi et al. (1989)	⊔ Jain et al. (1979)	+ Postigo et al. (2003)
◊ Anantaraman (1986)	† Jatkar and Deshpande (1960)	■ Prasad et al. (2005)
⌈ Aralaguppi et al. (1996)	↓ Jha et al. (2003)	⊔ Qun-Fang et al. (1997)
○ Back and Woolf (1998)	♠ Kalali et al. (1990)	▨ Ramkumar and Kudchadker (1989)
▢ Bandrés et al. (2007)	♣ Katuno (1948)	z Rathnam (1988)
▢ Bandrés et al. (2008)	⊔ Kinart et al.	▢ Rathnam et al. (2013)
◻ Bardavid et al. (1996)	⊔ Kiyohara et al. (1979)	✕ Rodnikova et al. (2011)
◻ Belandria et al. (2009)	✦ Klages and Möhler (1948)	⊔ Rodríguez et al. (1996)
○ Bernazzani et al. (2002)	⊔ Knězevic-Stevanovic et al. (2013)	✕ Rodríguez et al. (1997)
✦ Bhattacharyya et al. (1965)	⊔ Knězevic-Stevanovic et al. (2014)	✕ Rodríguez et al. (1999)
∇ Bourns and Nicholls (1948)	✦ Komatsu and Masumoto (1930)	⊔ Rodríguez et al. (2000)
⌈ Brocos et al. (1996)	✦ Koroosi and Kovats (1981)	⊔ Rodríguez et al. (2006)
⌈ Carvajal et al. (1965)	⊔ Ku et al. (2008)	○ Roy et al. (2001)
○ Chen et al. (2015)	✕ Kumar (2000)	✕ Saleh et al. (2002)
✕ Choudhury et al. (2003)	✦ Kushare et al. (2006)	➤ Schedemann (2009)
◊ Comelli and Francesconi (1991)	⌈ Lafuente et al. (2001)	✕ Schornack and Eckert (1970)
∇ Comelli and Francesconi (1995)	⊔ Lejcek et al. (1975)	▷ Segura et al. (2003)
△ Conti et al. (1994)	⌈ Lepori and Matteoli (1986)	◁ Shelar et al. (2016)
△ Conti et al. (1998)	✕ Letcher and Domanska (1994)	− Sinha and Roy (2006)
◊ Das and Roy (2006)	✕ Loras et al. (1999)	△ Sinha et al. (2013)
◻ Das et al. (1994)	✕ Loras et al. (2002)	⊔ Smyth and Walls (1932)
◊ Deshpande et al. (1971)	✕ Marczak et al. (2008)	− Solimo and Gomez Marigliano (1993)
◻ Dhaduk et al. (2015)	✕ Mariano et al. (2000)	⊔ Surendranath et al. (1992)
◻ Fattahi and Iloukhani (2010)	✕ Matous et al. (1972)	⌈ Suri and Naorem (1987)
◊ Fenclová and Dohnal (1991)	✕ Matsuda et al. (2011)	✕ Taniewska-Osinska et al. (1993)
▢ Francesconi and Comelli (1992)	◊ Metz and Glines (1967)	✕ Torres et al. (2008)
✦ Francesconi and Comelli (1994)	✕ Muhuri et al. (1996)	✕ Vaid et al. (2015)
◊ Francesconi and Comelli (1995)	✕ Nain (2006)	☆ Valén et al. (2002)
▢ Francesconi et al. (1992)	− Nain and Droliya (2017)	✕ Valén et al. (2003)
✦ Francesconi et al. (1993)	◊ Naorem and Suri (1989)	○ Vercher et al. (2011)
✦ Francesconi et al. (2006)	✕ Nayak et al. (2003)	✕ Villares et al. (2004)
⊔ Gadzurić et al. (2012)	▷ Nayak et al. (2004)	▷ Vittal Prasad et al. (2004)
▢ Gascón et al. (1999)	⊔ Nicolas et al. (1980)	✕ Wang et al. (2002)
▢ Gascón et al. (2000)	▷ Nikolic et al. (2005)	✕ Wang et al. (2003)
z Geppert-Rybczynska and Sitarek (2014)	◁ Nikolic et al. (2006)	◊ Wankhede et al. (2008)
⊔ Gill et al. (1993)	∇ Nonay et al. (2010)	◊ Wankhede et al. (2010)
⌈ Giner et al. (2006)	⊔ Oshmyansky et al. (1986)	◊ Weissler (1949)
⌈ Giner et al. (2007)	◊ Oswal et al. (2005)	✕ Whitehead et al. (1951)
✕ Govender et al. (1996)	▢ Oswal et al. (2010)	◻ Zafarani-Moattar and Majdan-Cegincara (2007)
▷ Grolier et al. (1982)	▢ Ottani et al. (2002)	▷ Zikmundova et al. (1990)
∇ Gupta et al. (2003)	◻ Ottani et al. (2003)	○ Zivkovic et al. (2014)
△ Hnedkovsky and Cibulka (1986)	⊔ Pérez et al. (2003)	◁ Zurita et al. (1992)
✕ Holland and Smyth		

Fig. 3: Legend for Figures 1 and 2.

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