2,3-DIHYDROFURAN

Other names: 2,3-Dihydrofuran
4,5-Dihydrofuran
Inchi: InChI=1S/C4H6O/c1-2-4-5-3-1/h1,3H,2,4H2
InchiKey: JKTCBAGSMQIFNL-UHFFFAOYSA-N
Formula: C4H6O
SMILES: C1=COCC1
Mol. weight [g/mol]: 70.09

Physical Properties

Property code	Value	Unit	Source
hf	-73.56	kJ/mol	Cheméo Relay (1.0)
hfus	8.18	kJ/mol	Joback Method
hvap	28.35	kJ/mol	Cheméo Relay (1.0)
ie	8.64	eV	Cheméo Relay (1.0)
logp	0.920		Crippen Method
mcvol	57.930	ml/mol	McGowan Method
pc	5390.71	kPa	Joback Method
tb	321.76	K	Cheméo Relay (1.0)
tc	524.73	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	84.76	J/mol×K	336.98	Joback Method
cpg	131.98	J/mol×K	537.92	Joback Method
cpg	125.30	J/mol×K	504.43	Joback Method
cpg	118.18	J/mol×K	470.94	Joback Method
cpg	110.58	J/mol×K	437.45	Joback Method
cpg	102.50	J/mol×K	403.96	Joback Method
cpg	93.90	J/mol×K	370.47	Joback Method
dvisc	0.0008196	Pa×s	257.14	Joback Method
dvisc	0.0003333	Pa×s	336.98	Joback Method
dvisc	0.0004273	Pa×s	310.37	Joback Method
dvisc	0.0005740	Pa×s	283.76	Joback Method

dvisc	0.0045332	Pa×s	177.31	Joback Method
dvisc	0.0012707	Pa×s	230.53	Joback Method
dvisc	0.0022090	Pa×s	203.92	Joback Method

Sources

Cheméo Relay (1.0, beta):

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C1191997&Units=SI

Joback Method: https://en.wikipedia.org/wiki/Joback_method

McGowan Method: http://link.springer.com/article/10.1007/BF02311772

Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

Cheméo Relay (1.0):

Legend

cpg: Ideal gas heat capacity
dvisc: Dynamic viscosity
hf: Enthalpy of formation at standard conditions
hfus: Enthalpy of fusion at standard conditions
hvap: Enthalpy of vaporization at standard conditions
ie: Ionization energy
logp: Octanol/Water partition coefficient
mcvol: McGowan's characteristic volume
pc: Critical Pressure
tb: Normal Boiling Point Temperature
tc: Critical Temperature

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