Benzofuran, 2,3-dihydro-2-methyl-

Other names:	2-Methyl-2,3-dihydrobenzofuran
	2-Methylcoumaran
	2,3-Dihydro-2-methylbenzofuran
Inchi:	InChI=1S/C9H10O/c1-7-6-8-4-2-3-5-9(8)10-7/h2-5,7H,6H2,1H3
InchiKey:	BWCJVGMZEQDOMY-UHFFFAOYSA-N
Formula:	C9H10O
SMILES:	CC1Cc2ccccc2O1
Mol. weight [g/mol]:	134.18
CAS:	1746-11-8

Physical Properties

Property code	Value	Unit	Source
gf	102.31	kJ/mol	Joback Method
hf	-63.23	kJ/mol	Joback Method
hfus	18.83	kJ/mol	Joback Method
hvap	42.99	kJ/mol	Joback Method
log10ws	-2.40		Crippen Method
logp	2.010		Crippen Method
mcvol	108.920	ml/mol	McGowan Method
pc	3695.46	kPa	Joback Method
rinpol	1306.00		NIST Webbook
rinpol	184.60		NIST Webbook
tb	470.67	K	Joback Method
tc	696.07	K	Joback Method
tf	274.64	K	Joback Method
vc	0.409	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	229.43	J/mol×K	470.67	Joback Method
cpg	243.71	J/mol×K	508.24	Joback Method
cpg	256.99	J/mol×K	545.80	Joback Method
cpg	269.35	J/mol×K	583.37	Joback Method

cpg	280.83	J/mol×K	620.94	Joback Method
cpg	291.50	J/mol×K	658.50	Joback Method
cpg	301.42	J/mol×K	696.07	Joback Method
dvisc	0.0016500	Pa×s	274.64	Joback Method
dvisc	0.0011869	Pa×s	307.31	Joback Method
dvisc	0.0009095	Pa×s	339.98	Joback Method
dvisc	0.0007303	Pa×s	372.65	Joback Method
dvisc	0.0006075	Pa×s	405.33	Joback Method
dvisc	0.0005194	Pa×s	438.00	Joback Method
dvisc	0.0004539	Pa×s	470.67	Joback Method

Sources

Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method: https://en.wikipedia.org/wiki/Joback_method
McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C1746118&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

cpg: Ideal gas heat capacity
dvisc: Dynamic viscosity
gf: Standard Gibbs free energy of formation
hf: Enthalpy of formation at standard conditions
hfus: Enthalpy of fusion at standard conditions
hvap: Enthalpy of vaporization at standard conditions
log10ws: Log10 of Water solubility in mol/l
logp: Octanol/Water partition coefficient
mcvol: McGowan's characteristic volume
pc: Critical Pressure
rinpol: Non-polar retention indices
tb: Normal Boiling Point Temperature
tc: Critical Temperature
tf: Normal melting (fusion) point
vc: Critical Volume

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