2,5-Dimethoxy-p-cymene

Other names:	Thymohydroquinone dimethyl ether
	p-2,5-Dimethoxycymene
	2,5-Dimethoxycymene
	Thymohydroquinone methyl ether
	p-Cymene, 2,5-dimethoxy
	2,5-Dimethoxy-4-isopropyltoluene
Inchi:	InChI=1S/C12H18O2/c1-8(2)10-7-11(13-4)9(3)6-12(10)14-5/h6-8H,1-5H3
InchiKey:	VTRMVHBUTNPBTP-UHFFFAOYSA-N
Formula:	C12H18O2
SMILES:	COc1cc(C(C)C)c(OC)cc1C
Mol. weight [g/mol]:	194.27
CAS:	14753-08-3

Physical Properties

Property code	Value	Unit	Source
gf	-78.76	kJ/mol	Joback Method
hf	-358.61	kJ/mol	Joback Method
hfus	18.56	kJ/mol	Joback Method
hvap	51.00	kJ/mol	Joback Method
log10ws	-3.37		Crippen Method
logp	3.136		Crippen Method
mcvol	167.920	ml/mol	McGowan Method
pc	2246.13	kPa	Joback Method
rinpol	1399.00		NIST Webbook
rinpol	1421.50		NIST Webbook
rinpol	1430.00		NIST Webbook
rinpol	1421.00		NIST Webbook
rinpol	1415.00		NIST Webbook
rinpol	1420.00		NIST Webbook
rinpol	1425.00		NIST Webbook
rinpol	1415.00		NIST Webbook
rinpol	1418.20		NIST Webbook
rinpol	1430.00		NIST Webbook
rinpol	1420.00		NIST Webbook
rinpol	1415.00		NIST Webbook
rinpol	1424.00		NIST Webbook
rinpol	1422.00		NIST Webbook

rinpol	1423.00		NIST Webbook
rinpol	1417.00		NIST Webbook
rinpol	1407.00		NIST Webbook
rinpol	1423.00		NIST Webbook
rinpol	1424.00		NIST Webbook
ripol	1852.00		NIST Webbook
ripol	1918.00		NIST Webbook
ripol	1878.00		NIST Webbook
ripol	1878.00		NIST Webbook
ripol	1878.00		NIST Webbook
ripol	1878.00		NIST Webbook
ripol	1885.00		NIST Webbook
ripol	1866.00		NIST Webbook
ripol	1873.00		NIST Webbook
ripol	1852.00		NIST Webbook
ripol	1885.00		NIST Webbook
tb	559.98	K	Joback Method
tc	763.30	K	Joback Method
tf	318.44	K	Joback Method
vc	0.629	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	399.02	J/mol×K	559.98	Joback Method
cpg	414.65	J/mol×K	593.87	Joback Method
cpg	429.61	J/mol×K	627.75	Joback Method
cpg	443.90	J/mol×K	661.64	Joback Method
cpg	457.51	J/mol×K	695.53	Joback Method
cpg	470.43	J/mol×K	729.41	Joback Method
cpg	482.66	J/mol×K	763.30	Joback Method
dvisc	0.0010723	Pa×s	318.44	Joback Method
dvisc	0.0006097	Pa×s	358.70	Joback Method
dvisc	0.0003885	Pa×s	398.95	Joback Method
dvisc	0.0002689	Pa×s	439.21	Joback Method
dvisc	0.0001979	Pa×s	479.47	Joback Method
dvisc	0.0001528	Pa×s	519.72	Joback Method
dvisc	0.0001224	Pa×s	559.98	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=C14753083&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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume