p-Cymen-9-ol

Other names: Cymene-9-ol
Inchi: InChI=1S/C10H14O/c1-8-3-5-10(6-4-8)9(2)7-11/h3-6,9,11H,7H2,1-2H3
InchiKey: CLFDIFDNDWRHJF-UHFFFAOYSA-N
Formula: C10H14O
SMILES: Cc1ccc(C(C)CO)cc1
Mol. weight [g/mol]: 150.22
CAS: 4371-50-0

Physical Properties

Property code	Value	Unit	Source
gf	-3.16	kJ/mol	Joback Method
hf	-182.18	kJ/mol	Joback Method
hfus	15.87	kJ/mol	Joback Method
hvap	57.08	kJ/mol	Joback Method
log10ws	-2.40		Crippen Method
logp	2.091		Crippen Method
mcvol	133.870	ml/mol	McGowan Method
pc	3220.98	kPa	Joback Method
rinpol	1157.00		NIST Webbook
rinpol	1202.00		NIST Webbook
rinpol	1202.00		NIST Webbook
rinpol	1205.00		NIST Webbook
rinpol	1203.00		NIST Webbook
rinpol	1178.00		NIST Webbook
rinpol	1202.00		NIST Webbook
rinpol	1202.00		NIST Webbook
rinpol	1207.00		NIST Webbook
rinpol	1191.00		NIST Webbook
rinpol	1206.00		NIST Webbook
rinpol	1195.00		NIST Webbook
rinpol	1195.00		NIST Webbook
rinpol	1206.00		NIST Webbook
rinpol	1196.00		NIST Webbook
rinpol	1178.00		NIST Webbook
rinpol	1196.00		NIST Webbook
rinpol	1205.00		NIST Webbook
ripol	1912.00		NIST Webbook

ripol	1962.00		NIST Webbook
ripol	1880.00		NIST Webbook
ripol	1912.00		NIST Webbook
tb	551.60	K	Joback Method
tc	749.01	K	Joback Method
tf	287.22	K	Joback Method
vc	0.500	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	311.76	J/mol×K	551.60	Joback Method
cpg	367.93	J/mol×K	716.11	Joback Method
cpg	357.94	J/mol×K	683.21	Joback Method
cpg	347.36	J/mol×K	650.31	Joback Method
cpg	336.15	J/mol×K	617.40	Joback Method
cpg	324.30	J/mol×K	584.50	Joback Method
cpg	377.34	J/mol×K	749.01	Joback Method
dvisc	0.0000954	Pa×s	551.60	Joback Method
dvisc	0.0001528	Pa×s	507.54	Joback Method
dvisc	0.0002676	Pa×s	463.47	Joback Method
dvisc	0.0005272	Pa×s	419.41	Joback Method
dvisc	0.0012179	Pa×s	375.35	Joback Method
dvisc	0.0035157	Pa×s	331.28	Joback Method
dvisc	0.0140498	Pa×s	287.22	Joback Method

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C4371500&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method: https://en.wikipedia.org/wiki/Joback_method

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