P-cresol, 2,2'-decamethylenedi-

Inchi: InChI=1S/C24H34O2/c1-19-13-15-23(25)21(17-19)11-9-7-5-3-4-6-8-10-12-22-18-20(2)14
InchiKey: CONXWPPQSLYOMM-UHFFFAOYSA-N
Formula: C24H34O2
SMILES: Cc1ccc(O)c(CCCCCCCCCCc2cc(C)ccc2O)c1
Mol. weight [g/mol]: 354.53
CAS: 10401-03-3

Physical Properties

Property code	Value	Unit	Source
gf	47.52	kJ/mol	Joback Method
hf	-443.19	kJ/mol	Joback Method
hfus	56.79	kJ/mol	Joback Method
hvap	100.92	kJ/mol	Joback Method
log10ws	-7.29		Crippen Method
logp	6.621		Crippen Method
mcvol	313.240	ml/mol	McGowan Method
pc	1488.44	kPa	Joback Method
tb	973.08	K	Joback Method
tc	1201.28	K	Joback Method
tf	661.56	K	Joback Method
vc	1.095	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1045.79	J/mol×K	973.08	Joback Method
cpg	1139.95	J/mol×K	1163.25	Joback Method
cpg	1120.86	J/mol×K	1125.22	Joback Method
cpg	1102.08	J/mol×K	1087.18	Joback Method
cpg	1083.42	J/mol×K	1049.15	Joback Method
cpg	1064.72	J/mol×K	1011.11	Joback Method
cpg	1159.52	J/mol×K	1201.28	Joback Method
dvisc	7.8679285e-08	Pa×s	973.08	Joback Method
dvisc	0.0000001	Pa×s	921.16	Joback Method

dvisc	0.0000002	Pa×s	869.24	Joback Method
dvisc	0.0000003	Pa×s	817.32	Joback Method
dvisc	0.0000006	Pa×s	765.40	Joback Method
dvisc	0.0000013	Pa×s	713.48	Joback Method
dvisc	0.0000031	Pa×s	661.56	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C10401033&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume