Phenol, 4,4'-(1-methylethylidene)bis[2-methyl-

Other names:	2,2-Bis(3-methyl-4-hydroxyphenyl)propane Phenol, 4,4'-(1-methylethylidene)bis[2-methyl- o-Cresol, 4,4'-isopropylidenedi- Dicresylolpropane Nonox DCP 2,2-Bis(4-hydroxy-3-methylphenyl)propane 3,3'-Dimethyldian 4,4'-Isopropylidenebis[2-methylphenol] 4,4'-Isopropylidenedi-o-cresol o-Cresol, 4,4'-(2,2-propylene)bis- 3,3'-Dimethylbisphenol A NSC 408489
Inchi:	InChI=1S/C17H20O2/c1-11-9-13(5-7-15(11)18)17(3,4)14-6-8-16(19)12(2)10-14/h5-10,18
InchiKey:	YMTYZTXUZLQUSF-UHFFFAOYSA-N
Formula:	C17H20O2
SMILES:	Cc1cc(C(C)(C)c2ccc(O)c(C)c2)ccc1O
Mol. weight [g/mol]:	256.35

Physical Properties

Property code	Value	Unit	Source
af	0.7462		Cheméo Relay (1.0)
gf	-8.58	kJ/mol	Joback Method
hf	-272.69	kJ/mol	Cheméo Relay (1.0)
hfus	31.24	kJ/mol	Joback Method
hvap	120.65	kJ/mol	Cheméo Relay (1.0)
ie	7.67	eV	Cheméo Relay (1.0)
log10ws	-4.02		Cheméo Relay (1.0)
logp	4.041		Crippen Method
mcvol	214.610	ml/mol	McGowan Method
pc	2767.17	kPa	Joback Method
tb	581.95	K	Cheméo Relay (1.0)
tc	911.02	K	Cheméo Relay (1.0)
tf	407.63	K	Cheméo Relay (1.0)
vc	0.752	m3/kmol	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	633.88	J/mol×K	809.69	Joback Method
cpg	649.15	J/mol×K	852.09	Joback Method
cpg	663.85	J/mol×K	894.49	Joback Method
cpg	678.23	J/mol×K	936.89	Joback Method
cpg	692.53	J/mol×K	979.29	Joback Method
cpg	706.98	J/mol×K	1021.69	Joback Method
cpg	721.84	J/mol×K	1064.09	Joback Method
dvisc	0.0000113	Pa×s	585.09	Joback Method
dvisc	0.0000054	Pa×s	622.52	Joback Method
dvisc	0.0000028	Pa×s	659.96	Joback Method
dvisc	0.0000016	Pa×s	697.39	Joback Method
dvisc	0.0000009	Pa×s	734.82	Joback Method
dvisc	0.0000006	Pa×s	772.26	Joback Method
dvisc	0.0000004	Pa×s	809.69	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	514.20	K	1.60	NIST Webbook

Sources

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):

Cheméo Relay (1.0, beta):

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C79970&Units=SI

Legend

af:	Acentric Factor
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
ie:	Ionization energy
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
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume