Phenol, 2,2'-methylenebis[6-(1,1-dimethylethyl)-4-methyl-

Other names:

p-Cresol, 2,2'-methylenebis[6-tert-butyl-
A-22-46
Advastab 405
Alterungsschutzmittel BKF
Anti Ox
Antioxidant BKF
Antioxidant NG-2246
Antioxidant 1
Antioxidant 2246
AO 1
AO 1 (Antioxidant)
AO 2246
Bisalkofen BP
BKF
Calco 2246
Catolin 14
Chemanox 21
CAO 14
CAO 5
Lederle 2246
Nocrac NS 6
Nocrack NS 6
NG 2246
Plastanox 2246
Plastanox 2246 Antioxidant
S 67
2,2'-Methylenebis[4-Methyl-6-tert-butylphenol]
2,2'-Methylenebis(6-t-butyl-4-methylphenol)
2,2'-Methylenebis(6-tert-butyl-p-cresol)
Di(2-hydroxy-5-methyl-3-tert-butylphenyl)methane
Methane, 2,2'-bis(6-tert-butyl-p-cresyl)-
2,2'-Bis-6-terc.butyl-p-kresylmethan
2,2'-Methylenebis(6-(1,1-dimethylethyl)-p-cresol)
Methane, 2,2'-bis(6-t-butyl-p-cresyl)-
Antage W 400
Bisaklofen bp
2,2'-Methylene-bis(6-tert-butyl-4-methylphenol)
OXY CHEK 114
Synox 5LT
Vulkanox BKF

	Phenol, 2,2'-methylenebis*6-(1,1-dimethylethyl)-4-methyl-
	p-Cresol, 2,2'-methylenebis*6-tert-butyl-
	Bis(2-hydroxy-3-tert-butyl-5-methylphenyl)methane
	Bis(6-hydroxy-3-methyl-5-tert-butylphenyl)methane
	Sumilizer MDP
	Cyanox 2246
	Agidol 2
	Antioxidant OMB
	2,2'-Methylene-bis-(4-methyl-6-t-butylphenol)
	2,2'-Methylene-bis(6-tert-butyl)-para-cresol
	2,2'-Methylenebis 6-(1,1-dimethylethyl)-4-methyl-phenol
	2,2'Methylenebis(6-tert-4-methylphenol)
	6,6'-Di-tert-butyl-2,2'-methylenedi-p-cresol
	Lowinox 22M46
	Ralox 46
	2-tert-Butyl-6-(2-hydroxy-3-tert-butyl-5-methyl-benzyl)-4-methyl-phenol
	Ionol 46
	Bis(2-hydroxy-5-methyl-3-tert-butylphenyl)methane
	2,2'-Bis(4-methyl-6-tert-butylphenol)methane
	3,3'-Di-tert-butyl-5,5'-dimethyl-2,2-dihydroxydiphenylmethane
Inchi:	InChI=1S/C23H32O2/c1-14-9-16(20(24)18(11-14)22(3,4)5)13-17-10-15(2)12-19(21(17)2
InchiKey:	KGRVJHAUYBGFFP-UHFFFAOYSA-N
Formula:	C23H32O2
SMILES:	Cc1cc(Cc2cc(C)cc(C(C)(C)C)c2O)c(O)c(C(C)(C)C)c1
Mol. weight [g/mol]:	340.50
CAS:	119-47-1

Physical Properties

Property code	Value	Unit	Source
gf	25.52	kJ/mol	Joback Method
hf	-462.99	kJ/mol	Joback Method
hfus	38.59	kJ/mol	Joback Method
hvap	97.43	kJ/mol	Joback Method
log10ws	-6.25		Crippen Method
logp	5.900		Crippen Method
mcvol	299.150	ml/mol	McGowan Method
pc	1615.47	kPa	Joback Method
rinpol	2398.00		NIST Webbook
rinpol	2398.00		NIST Webbook
tb	953.70	K	Joback Method

tc	1197.24	K	Joback Method
tf	680.17	K	Joback Method
vc	1.018	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1101.67	J/mol×K	1197.24	Joback Method
cpg	982.66	J/mol×K	953.70	Joback Method
cpg	1001.80	J/mol×K	994.29	Joback Method
cpg	1020.88	J/mol×K	1034.88	Joback Method
cpg	1040.16	J/mol×K	1075.47	Joback Method
cpg	1059.89	J/mol×K	1116.06	Joback Method
cpg	1080.31	J/mol×K	1156.65	Joback Method
dvisc	6.0346162e-08	Pa×s	953.70	Joback Method
dvisc	0.0000016	Pa×s	680.17	Joback Method
dvisc	0.0000008	Pa×s	725.76	Joback Method
dvisc	0.0000004	Pa×s	771.35	Joback Method
dvisc	0.0000002	Pa×s	816.94	Joback Method
dvisc	0.0000001	Pa×s	862.52	Joback Method
dvisc	9.1197039e-08	Pa×s	908.11	Joback Method
hfust	29.33	kJ/mol	403.70	NIST Webbook
hsubt	114.00	kJ/mol	393.00	NIST Webbook

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C119471&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
hfust:	Enthalpy of fusion at a given temperature
hsubt:	Enthalpy of sublimation at a given temperature
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