2,6-Ditert-buthyl-4-hydroxy toluene

Other names:	2,6-bis(1,1-dimethylethyl)-4-methylphenol
	2,6-bis(tert-butyl)-4-methylphenol
	2,6-di-tert-butyl-4-hydroxytoluene
	2,6-di-tert-butyl-4-methylphenol
	2,6-di-tert-butyl-p-cresol
	2,6-di-tert-butyl-p-methylphenol
	2,6-di-tert-butylmethylphenol
	2,6-tert-butyl-4-methylphenol
	3,5-di-tert-butyl-4-hydroxytoluene
	4-hydroxy-3,5-di-tert-butyltoluene
	4-methyl-2,6-di-tert-butylphenol
	DBPC
	advastab 401
	agidol
	alkofen BP
	antage BHT
	antioxidant 264
	butylated hydroxytoluene
	chemanox 11
	dibunol
	dibutylated hydroxytoluene
	ionol
	ionole
	phenol, 1,6-bis(1,1-dimethylethyl)-4-methyl-
Inchi:	InChI=1S/C15H24O/c1-10-12(14(2,3)4)8-11(16)9-13(10)15(5,6)7/h8-9,16H,1-7H3
InchiKey:	SMNGQGWPUVVORF-UHFFFAOYSA-N
Formula:	C15H24O
SMILES:	Cc1c(C(C)(C)C)cc(O)cc1C(C)(C)C
Mol. weight [g/mol]:	220.35

Physical Properties

Property code	Value	Unit	Source
gf	19.63	kJ/mol	Joback Method
hf	-334.15	kJ/mol	Joback Method
hfus	18.82	kJ/mol	Joback Method
hvap	63.01	kJ/mol	Joback Method

log10ws	-4.12		Crippen Method
logp	4.296		Crippen Method
mcvol	204.320	ml/mol	McGowan Method
pc	2123.64	kPa	Joback Method
rinpol	1519.00		NIST Webbook
tb	653.40	K	Joback Method
tc	880.13	K	Joback Method
tf	343.15	K	Liquid pharmaceuticals formulation by eutectic formation
vc	0.712	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	562.55	J/mol×K	653.40	Joback Method
cpg	580.43	J/mol×K	691.19	Joback Method
cpg	597.12	J/mol×K	728.98	Joback Method
cpg	612.75	J/mol×K	766.77	Joback Method
cpg	627.45	J/mol×K	804.56	Joback Method
cpg	641.37	J/mol×K	842.35	Joback Method
cpg	654.63	J/mol×K	880.13	Joback Method
dvisc	0.0006069	Pa×s	426.83	Joback Method
dvisc	0.0002505	Pa×s	464.59	Joback Method
dvisc	0.0001181	Pa×s	502.35	Joback Method
dvisc	0.0000618	Pa×s	540.12	Joback Method
dvisc	0.0000352	Pa×s	577.88	Joback Method
dvisc	0.0000215	Pa×s	615.64	Joback Method
dvisc	0.0000139	Pa×s	653.40	Joback Method

Sources

Probing effect of lipophilic butylated hydroxytoluene on anionic surfactant properties for potential food and pharmaceutical applications: Thermo-acoustic and spectroscopic study:	https://www.doi.org/10.1016/j.fluid.2014.03.032
Liquid pharmaceuticals formulation by eutectic formation:	https://www.doi.org/10.1016/j.fluid.2017.05.009
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=R417300&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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