

2,6-Bis(1,1-dimethylethyl)-4-(1-oxopropyl)phenol

Other names:	3,5-Bis(tert.-butyl)-4-hydroxy-propiophenon 3,5-Bis(tert.-butyl)-4-hydroxy-propiophenone
Inchi:	InChI=1S/C17H26O2/c1-8-14(18)11-9-12(16(2,3)4)15(19)13(10-11)17(5,6)7/h9-10,19H,8
InchiKey:	JGJQYHBWTHQSPR-UHFFFAOYSA-N
Formula:	C17H26O2
SMILES:	CCC(=O)c1cc(C(C)(C)C)c(O)c(C(C)(C)C)c1
Mol. weight [g/mol]:	262.39
CAS:	14035-34-8

Physical Properties

Property code	Value	Unit	Source
gf	-92.45	kJ/mol	Joback Method
hf	-488.01	kJ/mol	Joback Method
hfus	25.60	kJ/mol	Joback Method
hvap	74.20	kJ/mol	Joback Method
log10ws	-4.73		Crippen Method
logp	4.580		Crippen Method
mcvol	234.070	ml/mol	McGowan Method
pc	1892.00	kPa	Joback Method
rinpol	1635.00		NIST Webbook
rinpol	1635.00		NIST Webbook
rinpol	1644.00		NIST Webbook
ripol	2370.00		NIST Webbook
tb	753.03	K	Joback Method
tc	977.72	K	Joback Method
tf	499.30	K	Joback Method
vc	0.830	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	689.92	J/molxK	753.03	Joback Method
cpg	765.20	J/molxK	940.27	Joback Method
cpg	751.56	J/molxK	902.82	Joback Method

cpg	737.34	J/molxK	865.37	Joback Method
cpg	722.42	J/molxK	827.93	Joback Method
cpg	706.66	J/molxK	790.48	Joback Method
cpg	778.42	J/molxK	977.72	Joback Method
dvisc	0.0000066	Paxs	753.03	Joback Method
dvisc	0.0000099	Paxs	710.74	Joback Method
dvisc	0.0000156	Paxs	668.45	Joback Method
dvisc	0.0000261	Paxs	626.16	Joback Method
dvisc	0.0000470	Paxs	583.88	Joback Method
dvisc	0.0000927	Paxs	541.59	Joback Method
dvisc	0.0002052	Paxs	499.30	Joback Method

Sources

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=C14035348&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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

Latest version available from:

<https://www.cheméo.com/cid/54-559-2/2-6-Bis-1-1-dimethylethyl-4-1-oxopropyl-phenol.pdf>

Generated by Cheméo on 2024-04-25 01:36:43.654855321 +0000 UTC m=+16298252.575432633.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.