

Phenol, 2-t-butyl-4-hexadecyloxy-

Inchi:	InChI=1S/C26H46O2/c1-5-6-7-8-9-10-11-12-13-14-15-16-17-18-21-28-23-19-20-25(27)2
InchiKey:	CYPWQARRSCIGGK-UHFFFAOYSA-N
Formula:	C26H46O2
SMILES:	CCCCCCCCCCCCCCCCOc1ccc(O)c(C(C)(C)C)c1
Mol. weight [g/mol]:	390.64

Physical Properties

Property code	Value	Unit	Source
gf	14.04	kJ/mol	Joback Method
hf	-673.19	kJ/mol	Joback Method
hfus	56.30	kJ/mol	Joback Method
hvap	90.54	kJ/mol	Joback Method
log10ws	-8.73		Crippen Method
logp	8.550		Crippen Method
mvol	365.180	ml/mol	McGowan Method
pc	948.50	kPa	Joback Method
tb	925.75	K	Joback Method
tc	1134.44	K	Joback Method
tf	558.09	K	Joback Method
vc	1.357	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1238.27	J/molxK	925.75	Joback Method
cpg	1334.12	J/molxK	1099.65	Joback Method
cpg	1316.33	J/molxK	1064.87	Joback Method
cpg	1297.96	J/molxK	1030.09	Joback Method
cpg	1278.90	J/molxK	995.31	Joback Method
cpg	1259.04	J/molxK	960.53	Joback Method
cpg	1351.46	J/molxK	1134.44	Joback Method
dvisc	0.0000010	Paxs	925.75	Joback Method
dvisc	0.0000016	Paxs	864.47	Joback Method
dvisc	0.0000026	Paxs	803.20	Joback Method

dvisc	0.0000046	Paxs	741.92	Joback Method
dvisc	0.0000091	Paxs	680.64	Joback Method
dvisc	0.0000206	Paxs	619.37	Joback Method
dvisc	0.0000557	Paxs	558.09	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=B6001084&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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
hvac:	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

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