

Phenol, 4-(1-propyl-2,3-dimethylbutyl)

Inchi:	InChI=1S/C15H24O/c1-5-6-15(12(4)11(2)3)13-7-9-14(16)10-8-13/h7-12,15-16H,5-6H2,1
InchiKey:	YYCIQGMFQMIXRW-UHFFFAOYSA-N
Formula:	C15H24O
SMILES:	CCCC(c1ccc(O)cc1)C(C)C(C)C
Mol. weight [g/mol]:	220.35

Physical Properties

Property code	Value	Unit	Source
gf	25.89	kJ/mol	Joback Method
hf	-309.55	kJ/mol	Joback Method
hfus	23.86	kJ/mol	Joback Method
hvap	63.11	kJ/mol	Joback Method
log10ws	-4.23		Crippen Method
logp	4.568		Crippen Method
mcvol	204.320	ml/mol	McGowan Method
pc	2155.30	kPa	Joback Method
rinsol	1759.00		NIST Webbook
tb	648.58	K	Joback Method
tc	861.97	K	Joback Method
tf	351.95	K	Joback Method
vc	0.716	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	558.96	J/molxK	648.58	Joback Method
cpg	638.52	J/molxK	826.40	Joback Method
cpg	624.40	J/molxK	790.84	Joback Method
cpg	609.47	J/molxK	755.27	Joback Method
cpg	593.65	J/molxK	719.71	Joback Method
cpg	576.84	J/molxK	684.14	Joback Method
cpg	651.91	J/molxK	861.97	Joback Method
dvisc	0.0000157	Paxs	648.58	Joback Method
dvisc	0.0000275	Paxs	599.14	Joback Method

dvisc	0.0000530	Paxs	549.70	Joback Method
dvisc	0.0001165	Paxs	500.26	Joback Method
dvisc	0.0003045	Paxs	450.83	Joback Method
dvisc	0.0010084	Paxs	401.39	Joback Method
dvisc	0.0046742	Paxs	351.95	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R592882&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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
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

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