Phenol, 4-(2-ethyl-1,1-dimethylbutyl)

Inchi: InChI=1S/C14H22O/c1-5-11(6-2)14(3,4)12-7-9-13(15)10-8-12/h7-11,15H,5-6H2,1-4H3
InchiKey: KDAVNYSBTBWHQK-UHFFFAOYSA-N
Formula: C14H22O
SMILES: CCC(CC)C(C)(C)c1ccc(O)cc1
Mol. weight [g/mol]: 206.32

Physical Properties

Property code	Value	Unit	Source
gf	25.19	kJ/mol	Joback Method
hf	-287.10	kJ/mol	Joback Method
hfus	20.90	kJ/mol	Joback Method
hvap	60.36	kJ/mol	Joback Method
log10ws	-3.77		Crippen Method
logp	4.106		Crippen Method
mcvol	190.230	ml/mol	McGowan Method
pc	2367.97	kPa	Joback Method
rinpol	1729.00		NIST Webbook
rinpol	1729.00		NIST Webbook
tb	623.35	K	Joback Method
tc	844.06	K	Joback Method
tf	373.10	K	Joback Method
vc	0.660	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	508.87	J/mol×K	623.35	Joback Method
cpg	585.91	J/mol×K	807.27	Joback Method
cpg	572.41	J/mol×K	770.49	Joback Method
cpg	558.07	J/mol×K	733.70	Joback Method
cpg	542.77	J/mol×K	696.92	Joback Method
cpg	526.41	J/mol×K	660.13	Joback Method
cpg	598.69	J/mol×K	844.06	Joback Method
dvisc	0.0000203	Pa×s	623.35	Joback Method

dvisc	0.0000338	Pa×s	581.64	Joback Method
dvisc	0.0000611	Pa×s	539.93	Joback Method
dvisc	0.0001219	Pa×s	498.22	Joback Method
dvisc	0.0002758	Pa×s	456.52	Joback Method
dvisc	0.0007356	Pa×s	414.81	Joback Method
dvisc	0.0024425	Pa×s	373.10	Joback Method

Sources

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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R592966&Units=SI

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