Benzene, 1-ethyl-3,5-diisopropyl-

Other names:	Benzene, 1,3-diisopropyl-5-ethyl-
	Benzene, 1-ethyl-3,5-bis(1-methylethyl)-
Inchi:	InChI=1S/C14H22/c1-6-12-7-13(10(2)3)9-14(8-12)11(4)5/h7-11H,6H2,1-5H3
InchiKey:	HWWKORYFZUHZKW-UHFFFAOYSA-N
Formula:	C14H22
SMILES:	CCc1cc(C(C)C)cc(C(C)C)c1
Mol. weight [g/mol]:	190.32
CAS:	15181-13-2

Physical Properties

Property code	Value	Unit	Source
gf	155.27	kJ/mol	Joback Method
hf	-129.26	kJ/mol	Joback Method
hfus	18.23	kJ/mol	Joback Method
hvap	49.58	kJ/mol	Joback Method
log10ws	-4.64		Crippen Method
logp	4.496		Crippen Method
mcvol	184.360	ml/mol	McGowan Method
pc	1984.12	kPa	Joback Method
tb	555.48	K	Joback Method
tc	759.81	K	Joback Method
tf	269.00	K	Joback Method
vc	0.700	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	443.49	J/mol×K	555.48	Joback Method
cpg	461.92	J/mol×K	589.54	Joback Method
cpg	479.41	J/mol×K	623.59	Joback Method
cpg	495.97	J/mol×K	657.65	Joback Method
cpg	511.64	J/mol×K	691.70	Joback Method
cpg	526.45	J/mol×K	725.76	Joback Method
cpg	540.43	J/mol×K	759.81	Joback Method

dvisc	0.0034674	Pa×s	269.00	Joback Method
dvisc	0.0013869	Pa×s	316.75	Joback Method
dvisc	0.0007052	Pa×s	364.49	Joback Method
dvisc	0.0004194	Pa×s	412.24	Joback Method
dvisc	0.0002779	Pa×s	459.99	Joback Method
dvisc	0.0001989	Pa×s	507.73	Joback Method
dvisc	0.0001508	Pa×s	555.48	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=C15181132&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume