1-Isopropyl-4-methyl-2-[1,5,9-trimethyl-1-(4-methy

Inchi: InChI=1S/C30H60/c1-10-25(6)16-12-20-30(9,21-13-17-26(7)15-11-14-23(2)3)29-22-27(8

InchiKey: CYGHPBQDCJXIPT-UHFFFAOYSA-N

Formula: C30H60

SMILES: CCC(C)CCCC(C)(CCCC(C)CCCC(C)C)C1CC(C)CCC1C(C)C

Mol. weight [g/mol]: 420.80

Physical Properties

Property code	Value	Unit	Source
gf	203.83	kJ/mol	Joback Method
hf	-678.76	kJ/mol	Joback Method
hfus	45.93	kJ/mol	Joback Method
hvap	79.34	kJ/mol	Joback Method
log10ws	-10.34		Crippen Method
logp	10.550		Crippen Method
mcvol	422.700	ml/mol	McGowan Method
pc	654.77	kPa	Joback Method
rinpol	2546.00		NIST Webbook
rinpol	2532.00		NIST Webbook
tb	891.02	K	Joback Method
tc	1091.88	K	Joback Method
tf	369.18	K	Joback Method
vc	1.611	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1489.61	J/mol×K	891.02	Joback Method
cpg	1515.85	J/mol×K	924.50	Joback Method
cpg	1540.43	J/mol×K	957.97	Joback Method
cpg	1563.44	J/mol×K	991.45	Joback Method
cpg	1584.95	J/mol×K	1024.93	Joback Method
cpg	1605.05	J/mol×K	1058.41	Joback Method
cpg	1623.83	J/mol×K	1091.88	Joback Method
dvisc	0.0034885	Pa×s	369.18	Joback Method

dvisc	0.0006836	Pa×s	456.15	Joback Method
dvisc	0.0002257	Pa×s	543.13	Joback Method
dvisc	0.0001012	Pa×s	630.10	Joback Method
dvisc	0.0000551	Pa×s	717.07	Joback Method
dvisc	0.0000343	Pa×s	804.05	Joback Method
dvisc	0.0000234	Pa×s	891.02	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=R507498&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