

2,6,10,14,18,22-Hexamethyl-7-(3-methyl-pentyl)-tri

Inchi:	InChI=1S/C35H72/c1-11-30(6)24-26-35(34(10)23-13-17-29(4)5)27-25-33(9)22-15-21-32
InchiKey:	KHLVEFYRQUOGHO-UHFFFAOYSA-N
Formula:	C35H72
SMILES:	CCC(C)CCC(CCC(C)CCCC(C)CCCC(C)CCCC(C)C)C(C)CCCC(C)C
Mol. weight [g/mol]:	492.95

Physical Properties

Property code	Value	Unit	Source
gf	224.30	kJ/mol	Joback Method
hf	-807.97	kJ/mol	Joback Method
hfus	58.22	kJ/mol	Joback Method
hvap	90.40	kJ/mol	Joback Method
log10ws	-12.54		Crippen Method
logp	12.747		Crippen Method
mcvol	504.010	ml/mol	McGowan Method
pc	490.77	kPa	Joback Method
rinpol	2945.00		NIST Webbook
tb	996.68	K	Joback Method
tc	1238.90	K	Joback Method
tf	364.21	K	Joback Method
vc	1.948	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1826.76	J/molxK	996.68	Joback Method
cpg	1856.85	J/molxK	1037.05	Joback Method
cpg	1884.79	J/molxK	1077.42	Joback Method
cpg	1910.76	J/molxK	1117.79	Joback Method
cpg	1934.89	J/molxK	1158.16	Joback Method
cpg	1957.36	J/molxK	1198.53	Joback Method
cpg	1978.33	J/molxK	1238.90	Joback Method
dvisc	0.0047631	Paxs	364.21	Joback Method
dvisc	0.0004283	Paxs	469.62	Joback Method

dvisc	0.0000931	Paxs	575.03	Joback Method
dvisc	0.0000325	Paxs	680.44	Joback Method
dvisc	0.0000150	Paxs	785.86	Joback Method
dvisc	0.0000084	Paxs	891.27	Joback Method
dvisc	0.0000053	Paxs	996.68	Joback Method

Sources

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=R495904&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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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