15-METHYLTRITRIACONTANE

Other names: Tritriacontane, 15-methyl
Inchi: InChI=1S/C34H70/c1-4-6-8-10-12-14-16-18-19-20-21-23-25-27-29-31-33-34(3)32-30-28-
InchiKey: OKQGOONCABNXHR-UHFFFAOYSA-N
Formula: C34H70
SMILES: CCCCCCCCCCCCCCCCCCC(C)CCCCCCCCCCCCCCC
Mol. weight [g/mol]: 478.93

Physical Properties

Property code	Value	Unit	Source
af	1.3070		Cheméo Relay (1.0)
gf	232.96	kJ/mol	Joback Method
hf	-756.34	kJ/mol	Cheméo Relay (1.0)
hfus	80.29	kJ/mol	Joback Method
hvap	165.13	kJ/mol	Cheméo Relay (1.0)
ie	10.22	eV	Cheméo Relay (1.0)
log10ws	-12.38		Cheméo Relay (1.0)
logp	13.365		Crippen Method
mcvol	489.920	ml/mol	McGowan Method
pc	499.58	kPa	Joback Method
rinpol	3331.00		NIST Webbook
rinpol	3338.00		NIST Webbook
rinpol	3325.00		NIST Webbook
rinpol	3329.00		NIST Webbook
rinpol	3335.00		NIST Webbook
rinpol	3327.00		NIST Webbook
rinpol	3333.00		NIST Webbook
rinpol	3333.00		NIST Webbook
rinpol	3329.00		NIST Webbook
rinpol	3332.00		NIST Webbook
rinpol	3335.00		NIST Webbook
rinpol	3332.00		NIST Webbook
rinpol	3318.00		NIST Webbook
rinpol	3329.00		NIST Webbook
tb	663.83	K	Cheméo Relay (1.0)
tc	833.68	K	Cheméo Relay (1.0)
tf	309.53	K	Cheméo Relay (1.0)
vc	1.929	m3/kmol	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1756.03	J/mol×K	976.88	Joback Method
cpg	1917.55	J/mol×K	1226.77	Joback Method
cpg	1894.95	J/mol×K	1185.12	Joback Method
cpg	1870.84	J/mol×K	1143.48	Joback Method
cpg	1845.07	J/mol×K	1101.83	Joback Method
cpg	1817.45	J/mol×K	1060.18	Joback Method
cpg	1787.83	J/mol×K	1018.53	Joback Method
dvisc	0.0000444	Pa×s	717.41	Joback Method
dvisc	0.0000119	Pa×s	976.88	Joback Method
dvisc	0.0000170	Pa×s	890.39	Joback Method
dvisc	0.0000261	Pa×s	803.90	Joback Method
dvisc	0.0007325	Pa×s	457.94	Joback Method
dvisc	0.0000875	Pa×s	630.92	Joback Method
dvisc	0.0002138	Pa×s	544.43	Joback Method

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772

Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

Cheméo Relay (1.0):

Cheméo Relay (1.0, beta):

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=U131203&Units=SI

Joback Method: https://en.wikipedia.org/wiki/Joback_method

Legend

af: Acentric Factor

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
ie:	Ionization energy
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