

Tritriacontane, 3-methyl-

Other names:	3-Methyltritriacontane
Inchi:	InChI=1S/C34H70/c1-4-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-2
InchiKey:	GGSUDEKGRQXJSB-UHFFFAOYSA-N
Formula:	C34H70
SMILES:	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC(C)CC
Mol. weight [g/mol]:	478.92
CAS:	14167-69-2

Physical Properties

Property code	Value	Unit	Source
gf	232.96	kJ/mol	Joback Method
hf	-750.37	kJ/mol	Joback Method
hfus	80.29	kJ/mol	Joback Method
hvap	90.89	kJ/mol	Joback Method
log10ws	-13.81		Crippen Method
logp	13.365		Crippen Method
mcvol	489.920	ml/mol	McGowan Method
pc	499.58	kPa	Joback Method
rinpol	3372.00		NIST Webbook
rinpol	3375.00		NIST Webbook
rinpol	3376.00		NIST Webbook
rinpol	3374.00		NIST Webbook
rinpol	3375.00		NIST Webbook
rinpol	3374.00		NIST Webbook
rinpol	3376.00		NIST Webbook
rinpol	3380.80		NIST Webbook
rinpol	3380.80		NIST Webbook
rinpol	3376.00		NIST Webbook
rinpol	3374.00		NIST Webbook
tb	976.88	K	Joback Method
tc	1226.77	K	Joback Method
tf	335.00 ± 0.50	K	NIST Webbook
vc	1.933	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1756.03	J/mol×K	976.88	Joback Method
cpg	1787.83	J/mol×K	1018.53	Joback Method
cpg	1817.45	J/mol×K	1060.18	Joback Method
cpg	1845.07	J/mol×K	1101.83	Joback Method
cpg	1870.84	J/mol×K	1143.48	Joback Method
cpg	1894.95	J/mol×K	1185.12	Joback Method
cpg	1917.55	J/mol×K	1226.77	Joback Method
dvisc	0.0007325	Pa×s	457.94	Joback Method
dvisc	0.0002138	Pa×s	544.43	Joback Method
dvisc	0.0000875	Pa×s	630.92	Joback Method
dvisc	0.0000444	Pa×s	717.41	Joback Method
dvisc	0.0000261	Pa×s	803.90	Joback Method
dvisc	0.0000170	Pa×s	890.39	Joback Method
dvisc	0.0000119	Pa×s	976.88	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=C14167692&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

Latest version available from:

<https://www.cheméo.com/cid/15-536-0/Tritriacontane-3-methyl.pdf>

Generated by Cheméo on 2025-12-05 05:43:17.835614338 +0000 UTC m=+4661595.365654991.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.