

3-Methyltricosane

Other names:	Tricosane, 3-methyl Docosane, 2-ethyl
Inchi:	InChI=1S/C24H50/c1-4-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24(3)5-2/h
InchiKey:	WCAGWYVPTZQWEN-UHFFFAOYSA-N
Formula:	C24H50
SMILES:	CCCCCCCCCCCCCCCCCCCC(C)CC
Mol. weight [g/mol]:	338.65

Physical Properties

Property code	Value	Unit	Source
gf	148.76	kJ/mol	Joback Method
hf	-543.97	kJ/mol	Joback Method
hfus	54.39	kJ/mol	Joback Method
hvap	68.63	kJ/mol	Joback Method
log10ws	-9.63		Crippen Method
logp	9.464		Crippen Method
mcvol	349.020	ml/mol	McGowan Method
pc	809.83	kPa	Joback Method
rinpol	2371.00		NIST Webbook
rinpol	2366.00		NIST Webbook
rinpol	2372.00		NIST Webbook
rinpol	2372.00		NIST Webbook
rinpol	2372.00		NIST Webbook
rinpol	2374.00		NIST Webbook
rinpol	2374.00		NIST Webbook
rinpol	2375.00		NIST Webbook
rinpol	2374.70		NIST Webbook
rinpol	2374.00		NIST Webbook
rinpol	2374.00		NIST Webbook
rinpol	2375.00		NIST Webbook
rinpol	2374.00		NIST Webbook
rinpol	2374.00		NIST Webbook
rinpol	2371.00		NIST Webbook
tb	748.08	K	Joback Method
tc	918.22	K	Joback Method
tf	345.24	K	Joback Method
vc	1.373	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1087.86	J/mol×K	748.08	Joback Method
cpg	1110.78	J/mol×K	776.44	Joback Method
cpg	1132.66	J/mol×K	804.79	Joback Method
cpg	1153.54	J/mol×K	833.15	Joback Method
cpg	1173.45	J/mol×K	861.51	Joback Method
cpg	1192.43	J/mol×K	889.86	Joback Method
cpg	1210.52	J/mol×K	918.22	Joback Method
dvisc	0.0031119	Pa×s	345.24	Joback Method
dvisc	0.0009096	Pa×s	412.38	Joback Method
dvisc	0.0003752	Pa×s	479.52	Joback Method
dvisc	0.0001924	Pa×s	546.66	Joback Method
dvisc	0.0001142	Pa×s	613.80	Joback Method
dvisc	0.0000751	Pa×s	680.94	Joback Method
dvisc	0.0000532	Pa×s	748.08	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U131182&Units=SI
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

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/30-449-0/3-Methyltricosane.pdf>

Generated by Cheméo on 2025-12-05 05:43:20.318014695 +0000 UTC m=+4661597.848055359.

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