

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]:	338.66

Physical Properties

Property code	Value	Unit	Source
af	0.9606		Cheméo Relay (1.0)
gf	148.76	kJ/mol	Joback Method
hf	-554.58	kJ/mol	Cheméo Relay (1.0)
hfus	54.39	kJ/mol	Joback Method
hvap	117.31	kJ/mol	Cheméo Relay (1.0)
ie	9.92	eV	Cheméo Relay (1.0)
log10ws	-9.66		Cheméo Relay (1.0)
logp	9.464		Crippen Method
mcvol	349.020	ml/mol	McGowan Method
pc	809.83	kPa	Joback Method
rinpol	2371.00		NIST Webbook
rinpol	2375.00		NIST Webbook
rinpol	2374.00		NIST Webbook
rinpol	2375.00		NIST Webbook
rinpol	2374.00		NIST Webbook
rinpol	2371.00		NIST Webbook
rinpol	2374.00		NIST Webbook
rinpol	2374.70		NIST Webbook
rinpol	2375.00		NIST Webbook
rinpol	2374.00		NIST Webbook
rinpol	2374.00		NIST Webbook
rinpol	2374.00		NIST Webbook
rinpol	2366.00		NIST Webbook
rinpol	2372.00		NIST Webbook
rinpol	2372.00		NIST Webbook
rinpol	2372.00		NIST Webbook
tb	602.74	K	Cheméo Relay (1.0)

tc	773.26	K	Cheméo Relay (1.0)
tf	295.45	K	Cheméo Relay (1.0)
vc	1.380	m3/kmol	Cheméo Relay (1.0)

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

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I
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=U131182&Units=SI
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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
rinpola:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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