

Eicosane, 3,7,11,15-tetramethyl

Inchi:	InChI=1S/C24H50/c1-7-9-10-14-22(4)17-12-18-24(6)20-13-19-23(5)16-11-15-21(3)8-2/h2
InchiKey:	RUDJWXWTWLPMKH-UHFFFAOYSA-N
Formula:	C24H50
SMILES:	CCCCC(C)CCCC(C)CCCC(C)CCCC(C)CC
Mol. weight [g/mol]:	338.65

Physical Properties

Property code	Value	Unit	Source
gf	141.44	kJ/mol	Joback Method
hf	-559.81	kJ/mol	Joback Method
hfus	43.82	kJ/mol	Joback Method
hvap	67.47	kJ/mol	Joback Method
log10ws	-8.90		Crippen Method
logp	9.032		Crippen Method
mcvol	349.020	ml/mol	McGowan Method
pc	821.01	kPa	Joback Method
rinpol	2156.00		NIST Webbook
tb	746.76	K	Joback Method
tc	919.40	K	Joback Method
tf	300.24	K	Joback Method
vc	1.355	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1089.01	J/mol×K	746.76	Joback Method
cpg	1195.03	J/mol×K	890.63	Joback Method
cpg	1175.86	J/mol×K	861.86	Joback Method
cpg	1155.71	J/mol×K	833.08	Joback Method
cpg	1134.54	J/mol×K	804.31	Joback Method
cpg	1112.32	J/mol×K	775.53	Joback Method
cpg	1213.26	J/mol×K	919.40	Joback Method
dvisc	0.0000417	Pa×s	746.76	Joback Method
dvisc	0.0000625	Pa×s	672.34	Joback Method

dvisc	0.0001034	Pa×s	597.92	Joback Method
dvisc	0.0001974	Pa×s	523.50	Joback Method
dvisc	0.0004672	Pa×s	449.08	Joback Method
dvisc	0.0015571	Pa×s	374.66	Joback Method
dvisc	0.0094251	Pa×s	300.24	Joback Method

Sources

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=R215342&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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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