

Eicosane, 2,6,10,15-tetramethyl

Inchi:	InChI=1S/C24H50/c1-7-8-9-15-22(4)16-10-11-17-23(5)19-13-20-24(6)18-12-14-21(2)3/h2
InchiKey:	CJUJBQYSEPKTAF-UHFFFAOYSA-N
Formula:	C24H50
SMILES:	CCCCC(C)CCCC(C)CCCC(C)CCCC(C)C
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
mvol	349.020	ml/mol	McGowan Method
pc	821.01	kPa	Joback Method
rinpol	2166.00		NIST Webbook
rinpol	2155.00		NIST Webbook
tb	746.76	K	Joback Method
tc	919.40	K	Joback Method
tf	300.24	K	Joback Method
vc	1.355	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1089.01	J/molxK	746.76	Joback Method
cpg	1195.03	J/molxK	890.63	Joback Method
cpg	1175.86	J/molxK	861.86	Joback Method
cpg	1155.71	J/molxK	833.08	Joback Method
cpg	1134.54	J/molxK	804.31	Joback Method
cpg	1112.32	J/molxK	775.53	Joback Method
cpg	1213.26	J/molxK	919.40	Joback Method
dvisc	0.0000417	Paxs	746.76	Joback Method

dvisc	0.0000625	Paxs	672.34	Joback Method
dvisc	0.0001034	Paxs	597.92	Joback Method
dvisc	0.0001974	Paxs	523.50	Joback Method
dvisc	0.0004672	Paxs	449.08	Joback Method
dvisc	0.0015571	Paxs	374.66	Joback Method
dvisc	0.0094251	Paxs	300.24	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R47344&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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

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