

4,8,12-Trimethylhexacosane

Inchi:	InChI=1S/C29H60/c1-6-8-9-10-11-12-13-14-15-16-17-18-22-28(4)24-20-26-29(5)25-19-2
InchiKey:	CFMWEVHGNKUWLK-UHFFFAOYSA-N
Formula:	C29H60
SMILES:	CCCCCCCCCCCCCCC(C)CCCC(C)CCCC(C)CCC
Mol. weight [g/mol]:	408.79

Physical Properties

Property code	Value	Unit	Source
gf	185.98	kJ/mol	Joback Method
hf	-657.73	kJ/mol	Joback Method
hfus	60.30	kJ/mol	Joback Method
hvap	78.98	kJ/mol	Joback Method
log10ws	-11.24		Crippen Method
logp	11.127		Crippen Method
mvol	419.470	ml/mol	McGowan Method
pc	631.93	kPa	Joback Method
rinpol	2719.00		NIST Webbook
rinpol	2719.00		NIST Webbook
tb	861.60	K	Joback Method
tc	1056.34	K	Joback Method
tf	371.59	K	Joback Method
vc	1.641	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1415.81	J/molxK	861.60	Joback Method
cpg	1441.79	J/molxK	894.06	Joback Method
cpg	1466.35	J/molxK	926.51	Joback Method
cpg	1489.56	J/molxK	958.97	Joback Method
cpg	1511.49	J/molxK	991.43	Joback Method
cpg	1532.22	J/molxK	1023.89	Joback Method
cpg	1551.80	J/molxK	1056.34	Joback Method
dvisc	0.0027055	Paxs	371.59	Joback Method

dvisc	0.0005861	Paxs	453.26	Joback Method
dvisc	0.0002025	Paxs	534.93	Joback Method
dvisc	0.0000927	Paxs	616.60	Joback Method
dvisc	0.0000510	Paxs	698.26	Joback Method
dvisc	0.0000318	Paxs	779.93	Joback Method
dvisc	0.0000216	Paxs	861.60	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R505447&Units=SI

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.chemeo.com/cid/57-789-4/4-8-12-Trimethylhexacosane.pdf>

Generated by Cheméo on 2024-05-03 07:51:02.928889513 +0000 UTC m=+17011911.849466835.

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