

Docosane, 2,6,10,15-tetramethyl

Inchi:	InChI=1S/C26H54/c1-7-8-9-10-11-17-24(4)18-12-13-19-25(5)21-15-22-26(6)20-14-16-23
InchiKey:	ZYKDBDUGLVRAGK-UHFFFAOYSA-N
Formula:	C26H54
SMILES:	CCCCCCCC(C)CCCC(C)CCCC(C)CCCC(C)C
Mol. weight [g/mol]:	366.71

Physical Properties

Property code	Value	Unit	Source
gf	158.28	kJ/mol	Joback Method
hf	-601.09	kJ/mol	Joback Method
hfus	49.00	kJ/mol	Joback Method
hvap	71.92	kJ/mol	Joback Method
log10ws	-9.74		Crippen Method
logp	9.812		Crippen Method
mcvol	377.200	ml/mol	McGowan Method
pc	737.62	kPa	Joback Method
tb	792.52	K	Joback Method
tc	971.33	K	Joback Method
tf	322.78	K	Joback Method
vc	1.468	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1217.84	J/molxK	792.52	Joback Method
cpg	1242.00	J/molxK	822.32	Joback Method
cpg	1264.96	J/molxK	852.12	Joback Method
cpg	1286.78	J/molxK	881.92	Joback Method
cpg	1307.49	J/molxK	911.73	Joback Method
cpg	1327.15	J/molxK	941.53	Joback Method
cpg	1345.81	J/molxK	971.33	Joback Method
dvisc	0.0065235	Paxs	322.78	Joback Method
dvisc	0.0011226	Paxs	401.07	Joback Method
dvisc	0.0003432	Paxs	479.36	Joback Method

dvisc	0.0001464	Paxs	557.65	Joback Method
dvisc	0.0000770	Paxs	635.94	Joback Method
dvisc	0.0000466	Paxs	714.23	Joback Method
dvisc	0.0000312	Paxs	792.52	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=R47237&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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