

4,12-dimethyl-tetracosane

Inchi:	InChI=1S/C26H54/c1-5-7-8-9-10-11-12-13-15-19-23-26(4)24-20-17-14-16-18-22-25(3)21
InchiKey:	GCXLMVMHUYIZRZ-UHFFFAOYSA-N
Formula:	C26H54
SMILES:	CCCCCCCCCCCC(C)CCCCCCCC(C)CCC
Mol. weight [g/mol]:	366.71

Physical Properties

Property code	Value	Unit	Source
gf	163.16	kJ/mol	Joback Method
hf	-590.53	kJ/mol	Joback Method
hfus	56.05	kJ/mol	Joback Method
hvap	72.69	kJ/mol	Joback Method
log10ws	-10.22		Crippen Method
logp	10.100		Crippen Method
mvol	377.200	ml/mol	McGowan Method
pc	731.25	kPa	Joback Method
rinpol	2488.00		NIST Webbook
tb	793.40	K	Joback Method
tc	971.62	K	Joback Method
tf	352.78	K	Joback Method
vc	1.480	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1217.07	J/molxK	793.40	Joback Method
cpg	1241.13	J/molxK	823.10	Joback Method
cpg	1264.02	J/molxK	852.81	Joback Method
cpg	1285.78	J/molxK	882.51	Joback Method
cpg	1306.47	J/molxK	912.22	Joback Method
cpg	1326.13	J/molxK	941.92	Joback Method
cpg	1344.80	J/molxK	971.62	Joback Method
dvisc	0.0031975	Paxs	352.78	Joback Method
dvisc	0.0008010	Paxs	426.22	Joback Method

dvisc	0.0003014	Paxs	499.65	Joback Method
dvisc	0.0001457	Paxs	573.09	Joback Method
dvisc	0.0000831	Paxs	646.53	Joback Method
dvisc	0.0000531	Paxs	719.96	Joback Method
dvisc	0.0000369	Paxs	793.40	Joback Method

Sources

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=R404656&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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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