

5-Ethyl-5-methyl-tricosane

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

Physical Properties

Property code	Value	Unit	Source
gf	170.88	kJ/mol	Joback Method
hf	-588.72	kJ/mol	Joback Method
hfus	55.68	kJ/mol	Joback Method
hvap	72.17	kJ/mol	Joback Method
log10ws	-10.46		Crippen Method
logp	10.244		Crippen Method
mcvol	377.200	ml/mol	McGowan Method
pc	732.44	kPa	Joback Method
rinpol	2515.00		NIST Webbook
rinpol	2515.00		NIST Webbook
tb	791.05	K	Joback Method
tc	969.07	K	Joback Method
tf	385.20	K	Joback Method
vc	1.480	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1216.77	J/molxK	791.05	Joback Method
cpg	1324.96	J/molxK	939.40	Joback Method
cpg	1305.38	J/molxK	909.73	Joback Method
cpg	1284.83	J/molxK	880.06	Joback Method
cpg	1263.25	J/molxK	850.39	Joback Method
cpg	1240.59	J/molxK	820.72	Joback Method
cpg	1343.62	J/molxK	969.07	Joback Method
dvisc	0.0000352	Paxs	791.05	Joback Method

dvisc	0.0000502	Paxs	723.41	Joback Method
dvisc	0.0000770	Paxs	655.77	Joback Method
dvisc	0.0001303	Paxs	588.12	Joback Method
dvisc	0.0002527	Paxs	520.48	Joback Method
dvisc	0.0005977	Paxs	452.84	Joback Method
dvisc	0.0019122	Paxs	385.20	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=R415666&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

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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