

10,20-Dimethyltriacontane

Inchi: InChI=1S/C32H66/c1-5-7-9-11-13-16-20-24-28-32(4)30-26-22-18-14-17-21-25-29-31(3)2
InchiKey: IINBCGOGBHXQNE-UHFFFAOYSA-N
Formula: C32H66
SMILES: CCCCCCCCCC(C)CCCCCCCCC(C)CCCCCCCCC
Mol. weight [g/mol]: 450.87

Physical Properties

Property code	Value	Unit	Source
gf	213.68	kJ/mol	Joback Method
hf	-714.37	kJ/mol	Joback Method
hfus	71.59	kJ/mol	Joback Method
hvap	86.05	kJ/mol	Joback Method
log10ws	-12.73		Crippen Method
logp	12.441		Crippen Method
mcvol	461.740	ml/mol	McGowan Method
pc	547.43	kPa	Joback Method
rinpol	3058.00		NIST Webbook
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tb	930.68	K	Joback Method
tc	1153.00	K	Joback Method
tf	420.40	K	Joback Method
vc	1.815	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1618.68	J/molxK	930.68	Joback Method
cpg	1746.45	J/molxK	1115.95	Joback Method
cpg	1724.04	J/molxK	1078.89	Joback Method
cpg	1700.16	J/molxK	1041.84	Joback Method
cpg	1674.72	J/molxK	1004.79	Joback Method
cpg	1647.60	J/molxK	967.73	Joback Method
cpg	1767.52	J/molxK	1153.00	Joback Method
dvisc	0.0000149	Paxs	930.68	Joback Method

dvisc	0.0000215	Paxs	845.63	Joback Method
dvisc	0.0000337	Paxs	760.59	Joback Method
dvisc	0.0000592	Paxs	675.54	Joback Method
dvisc	0.0001222	Paxs	590.49	Joback Method
dvisc	0.0003218	Paxs	505.45	Joback Method
dvisc	0.0012543	Paxs	420.40	Joback Method

Sources

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=R538828&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cp_g:	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:	Log ₁₀ of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
m_{cvol}:	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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