

13,21,25-Trimethyltripentacontane

Inchi:	InChI=1S/C56H114/c1-6-8-10-12-14-16-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32
InchiKey:	GXOPJJNCCVMDG-UHFFFAOYSA-N
Formula:	C56H114
SMILES:	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC(C)CCCC(C)CCCCCCCC(C)CCCCCCCC
Mol. weight [g/mol]:	787.50

Physical Properties

Property code	Value	Unit	Source
gf	413.32	kJ/mol	Joback Method
hf	-1215.01	kJ/mol	Joback Method
hfus	130.23	kJ/mol	Joback Method
hvap	139.09	kJ/mol	Joback Method
log10ws	-22.54		Crippen Method
logp	21.659		Crippen Method
mvol	799.900	ml/mol	McGowan Method
pc	231.67	kPa	Joback Method
rinpol	5363.00		NIST Webbook
rinpol	5363.00		NIST Webbook
tb	1479.36	K	Joback Method
tc	2842.55	K	Joback Method
tf	675.88	K	Joback Method
vc	3.154	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	3329.51	J/mol×K	1479.36	Joback Method
cpg	3480.83	J/mol×K	1706.56	Joback Method
cpg	3664.62	J/mol×K	1933.76	Joback Method
cpg	3926.88	J/mol×K	2160.95	Joback Method
cpg	4313.61	J/mol×K	2388.15	Joback Method
cpg	4870.80	J/mol×K	2615.35	Joback Method
cpg	5644.46	J/mol×K	2842.55	Joback Method
dvisc	0.0000228	Paxs	675.88	Joback Method

dvisc	0.0000056	Paxs	809.79	Joback Method
dvisc	0.0000021	Paxs	943.71	Joback Method
dvisc	0.0000010	Paxs	1077.62	Joback Method
dvisc	0.0000005	Paxs	1211.53	Joback Method
dvisc	0.0000003	Paxs	1345.45	Joback Method
dvisc	0.0000002	Paxs	1479.36	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R337581&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

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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