11,15-DIMETHYLHENTRIACONTANE

Other names: Hentriacontane, 11,15-dimethyl
Inchi: InChI=1S/C33H68/c1-5-7-9-11-13-15-16-17-18-19-20-22-24-26-29-33(4)31-27-30-32(3)2
InchiKey: ZMPWPQZOFSYFKN-UHFFFAOYSA-N
Formula: C33H68
SMILES: CCCCCCCCCCCCCCCCC(C)CCCC(C)CCCCCCCCC
Mol. weight [g/mol]: 464.91

Physical Properties

Property code	Value	Unit	Source
af	1.2296		Cheméo Relay (1.0)
gf	222.10	kJ/mol	Joback Method
hf	-756.73	kJ/mol	Cheméo Relay (1.0)
hfus	74.18	kJ/mol	Joback Method
hvap	154.42	kJ/mol	Cheméo Relay (1.0)
ie	10.00	eV	Cheméo Relay (1.0)
log10ws	-12.03		Cheméo Relay (1.0)
logp	12.831		Crippen Method
mcvol	475.830	ml/mol	McGowan Method
pc	523.65	kPa	Joback Method
rinpol	3161.00		NIST Webbook
rinpol	3155.00		NIST Webbook
rinpol	3145.00		NIST Webbook
rinpol	3152.00		NIST Webbook
rinpol	3155.00		NIST Webbook
rinpol	3162.00		NIST Webbook
rinpol	3145.00		NIST Webbook
rinpol	3146.00		NIST Webbook
rinpol	3145.00		NIST Webbook
rinpol	3159.00		NIST Webbook
rinpol	3159.00		NIST Webbook
rinpol	3155.00		NIST Webbook
rinpol	3144.00		NIST Webbook
tb	659.37	K	Cheméo Relay (1.0)
tc	829.94	K	Cheméo Relay (1.0)
tf	287.39	K	Cheméo Relay (1.0)
vc	1.857	m3/kmol	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1687.29	J/mol×K	953.56	Joback Method
cpg	1717.36	J/mol×K	992.52	Joback Method
cpg	1745.48	J/mol×K	1031.48	Joback Method
cpg	1771.77	J/mol×K	1070.44	Joback Method
cpg	1796.37	J/mol×K	1109.40	Joback Method
cpg	1819.42	J/mol×K	1148.36	Joback Method
cpg	1841.06	J/mol×K	1187.32	Joback Method
dvisc	0.0010674	Pa×s	431.67	Joback Method
dvisc	0.0002747	Pa×s	518.65	Joback Method
dvisc	0.0001044	Pa×s	605.63	Joback Method
dvisc	0.0000506	Pa×s	692.62	Joback Method
dvisc	0.0000288	Pa×s	779.60	Joback Method
dvisc	0.0000184	Pa×s	866.58	Joback Method
dvisc	0.0000127	Pa×s	953.56	Joback Method

Sources

Cheméo Relay (1.0):

Cheméo Relay (1.0, beta):

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C56987747&Units=SI

Joback Method: https://en.wikipedia.org/wiki/Joback_method

McGowan Method: http://link.springer.com/article/10.1007/BF02311772

Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

Legend

af: Acentric Factor

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
ie:	Ionization energy
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