

8,22-Hentriacontadiene

Inchi:	InChI=1S/C31H60/c1-3-5-7-9-11-13-15-17-19-21-23-25-27-29-31-30-28-26-24-22-20-18-
InchiKey:	QMFCNPBBWTZUKS-AYEGBKGMISA-N
Formula:	C31H60
SMILES:	CCCCCCCC=CCCCCCCCCCCCCCC=CCCCCCCC
Mol. weight [g/mol]:	432.81

Physical Properties

Property code	Value	Unit	Source
gf	370.58	kJ/mol	Joback Method
hf	-448.73	kJ/mol	Joback Method
hfus	76.45	kJ/mol	Joback Method
hvap	84.52	kJ/mol	Joback Method
log10ws	-12.51		Crippen Method
logp	11.891		Crippen Method
mvol	439.050	ml/mol	McGowan Method
pc	597.80	kPa	Joback Method
rinpol	3043.00		NIST Webbook
tb	917.00	K	Joback Method
tc	1129.40	K	Joback Method
tf	428.97	K	Joback Method
vc	1.732	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1497.04	J/molxK	917.00	Joback Method
cpg	1618.16	J/molxK	1094.00	Joback Method
cpg	1596.15	J/molxK	1058.60	Joback Method
cpg	1573.15	J/molxK	1023.20	Joback Method
cpg	1549.05	J/molxK	987.80	Joback Method
cpg	1523.71	J/molxK	952.40	Joback Method
cpg	1639.31	J/molxK	1129.40	Joback Method
dvisc	0.0000160	Paxs	917.00	Joback Method
dvisc	0.0000224	Paxs	835.66	Joback Method

dvisc	0.0000338	Paxs	754.32	Joback Method
dvisc	0.0000563	Paxs	672.99	Joback Method
dvisc	0.0001079	Paxs	591.65	Joback Method
dvisc	0.0002542	Paxs	510.31	Joback Method
dvisc	0.0008291	Paxs	428.97	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R406954&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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

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

Latest version available from:

<https://www.chemeo.com/cid/45-618-6/8-22-Hentriacontadiene.pdf>

Generated by Cheméo on 2024-04-20 15:01:40.609775809 +0000 UTC m=+15914549.530353125.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.