

6,9-Tricosadiene

Inchi:	InChI=1S/C23H44/c1-3-5-7-9-11-13-15-17-19-21-23-22-20-18-16-14-12-10-8-6-4-2/h11,1
InchiKey:	QVTSRBNFHQATMF-GRAPOSQESA-N
Formula:	C23H44
SMILES:	CCCCC=CCC=CCCCCCCCCCCCCCC
Mol. weight [g/mol]:	320.60

Physical Properties

Property code	Value	Unit	Source
gf	303.22	kJ/mol	Joback Method
hf	-283.61	kJ/mol	Joback Method
hfus	55.73	kJ/mol	Joback Method
hvap	66.71	kJ/mol	Joback Method
log10ws	-9.16		Crippen Method
logp	8.770		Crippen Method
mcvol	326.330	ml/mol	McGowan Method
pc	906.15	kPa	Joback Method
rinpol	2252.00		NIST Webbook
tb	733.96	K	Joback Method
tc	905.92	K	Joback Method
tf	338.81	K	Joback Method
vc	1.284	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	979.28	J/molxK	733.96	Joback Method
cpg	1076.54	J/molxK	877.26	Joback Method
cpg	1058.79	J/molxK	848.60	Joback Method
cpg	1040.23	J/molxK	819.94	Joback Method
cpg	1020.83	J/molxK	791.28	Joback Method
cpg	1000.53	J/molxK	762.62	Joback Method
cpg	1093.55	J/molxK	905.92	Joback Method
dvisc	0.0000496	Paxs	733.96	Joback Method
dvisc	0.0000687	Paxs	668.10	Joback Method

dvisc	0.0001022	Paxs	602.24	Joback Method
dvisc	0.0001677	Paxs	536.38	Joback Method
dvisc	0.0003161	Paxs	470.53	Joback Method
dvisc	0.0007323	Paxs	404.67	Joback Method
dvisc	0.0023514	Paxs	338.81	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R406934&Units=SI

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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