

2-tricosene (E)

Inchi:	InChI=1S/C23H46/c1-3-5-7-9-11-13-15-17-19-21-23-22-20-18-16-14-12-10-8-6-4-2/h3,5H
InchiKey:	FWHRANRHXDFMAP-HWKANZROSA-N
Formula:	C23H46
SMILES:	CC=CCCCCCCCCCCCCCCCCCCC
Mol. weight [g/mol]:	322.61

Physical Properties

Property code	Value	Unit	Source
gf	223.00	kJ/mol	Joback Method
hf	-400.83	kJ/mol	Joback Method
hfus	55.53	kJ/mol	Joback Method
hvap	66.75	kJ/mol	Joback Method
log10ws	-9.30		Crippen Method
logp	8.994		Crippen Method
mcvol	330.630	ml/mol	McGowan Method
pc	878.44	kPa	Joback Method
rinpol	2308.00		NIST Webbook
tb	729.80	K	Joback Method
tc	898.78	K	Joback Method
tf	343.89	K	Joback Method
vc	1.304	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1001.91	J/molxK	729.80	Joback Method
cpg	1101.50	J/molxK	870.62	Joback Method
cpg	1083.34	J/molxK	842.45	Joback Method
cpg	1064.34	J/molxK	814.29	Joback Method
cpg	1044.47	J/molxK	786.13	Joback Method
cpg	1023.67	J/molxK	757.96	Joback Method
cpg	1118.87	J/molxK	898.78	Joback Method
dvisc	0.0000572	Paxs	729.80	Joback Method
dvisc	0.0000792	Paxs	665.48	Joback Method

dvisc	0.0001175	Paxs	601.16	Joback Method
dvisc	0.0001915	Paxs	536.85	Joback Method
dvisc	0.0003567	Paxs	472.53	Joback Method
dvisc	0.0008080	Paxs	408.21	Joback Method
dvisc	0.0024855	Paxs	343.89	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R205944&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

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