5-Tricosene

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/h9,11
InchiKey: WQEZEKRSGPOGMO-PKNBQFBNSA-N
Formula: C23H46
SMILES: CCCCC=CCCCCCCCCCCCCCCCCC
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	2284.00		NIST Webbook
rinpol	2284.00		NIST Webbook
tb	729.80	K	Joback Method
tc	898.78	K	Joback Method
tf	343.89	K	Joback Method
vc	1.304	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1001.91	J/mol×K	729.80	Joback Method
cpg	1023.67	J/mol×K	757.96	Joback Method
cpg	1044.47	J/mol×K	786.13	Joback Method
cpg	1064.34	J/mol×K	814.29	Joback Method
cpg	1083.34	J/mol×K	842.45	Joback Method
cpg	1101.50	J/mol×K	870.62	Joback Method
cpg	1118.87	J/mol×K	898.78	Joback Method
dvisc	0.0024855	Pa×s	343.89	Joback Method

dvisc	0.0008080	Pa×s	408.21	Joback Method
dvisc	0.0003567	Pa×s	472.53	Joback Method
dvisc	0.0001915	Pa×s	536.85	Joback Method
dvisc	0.0001175	Pa×s	601.16	Joback Method
dvisc	0.0000792	Pa×s	665.48	Joback Method
dvisc	0.0000572	Pa×s	729.80	Joback Method

Sources

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=R406909&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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