7-Heneicosene

Inchi: InChI=1S/C21H42/c1-3-5-7-9-11-13-15-17-19-21-20-18-16-14-12-10-8-6-4-2/h13,15H,3-1
InchiKey: SBHBIXWEZPXRMZ-FYWRMAATSA-N
Formula: C21H42
SMILES: CCCCCCC=CCCCCCCCCCCCCC
Mol. weight [g/mol]: 294.56

Physical Properties

Property code	Value	Unit	Source
gf	206.16	kJ/mol	Joback Method
hf	-359.55	kJ/mol	Joback Method
hfus	50.35	kJ/mol	Joback Method
hvap	62.30	kJ/mol	Joback Method
log10ws	-8.47		Crippen Method
logp	8.214		Crippen Method
mcvol	302.450	ml/mol	McGowan Method
pc	987.64	kPa	Joback Method
rinpol	2080.25		NIST Webbook
tb	684.04	K	Joback Method
tc	849.41	K	Joback Method
tf	321.35	K	Joback Method
vc	1.192	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	879.54	J/mol×K	684.04	Joback Method
cpg	900.45	J/mol×K	711.60	Joback Method
cpg	920.46	J/mol×K	739.16	Joback Method
cpg	939.61	J/mol×K	766.72	Joback Method
cpg	957.94	J/mol×K	794.28	Joback Method
cpg	975.47	J/mol×K	821.85	Joback Method
cpg	992.25	J/mol×K	849.41	Joback Method
dvisc	0.0031008	Pa×s	321.35	Joback Method
dvisc	0.0010163	Pa×s	381.80	Joback Method

dvisc	0.0004519	Pa×s	442.25	Joback Method
dvisc	0.0002442	Pa×s	502.69	Joback Method
dvisc	0.0001506	Pa×s	563.14	Joback Method
dvisc	0.0001020	Pa×s	623.59	Joback Method
dvisc	0.0000740	Pa×s	684.04	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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=R282030&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