

2-eicosene (E)

Inchi:	InChI=1S/C20H40/c1-3-5-7-9-11-13-15-17-19-20-18-16-14-12-10-8-6-4-2/h3,5H,4,6-20H
InchiKey:	VHMBMZSDFOQAHR-HWKANZROSA-N
Formula:	C20H40
SMILES:	CC=CCCCCCCCCCCCCCCCCCC
Mol. weight [g/mol]:	280.53

Physical Properties

Property code	Value	Unit	Source
gf	197.74	kJ/mol	Joback Method
hf	-338.91	kJ/mol	Joback Method
hfus	47.76	kJ/mol	Joback Method
hvap	60.07	kJ/mol	Joback Method
log10ws	-8.05		Crippen Method
logp	7.824		Crippen Method
mcvol	288.360	ml/mol	McGowan Method
pc	1050.05	kPa	Joback Method
rmpol	2007.00		NIST Webbook
tb	661.16	K	Joback Method
tc	825.52	K	Joback Method
tf	310.08	K	Joback Method
vc	1.135	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	819.91	J/molxK	661.16	Joback Method
cpg	840.43	J/molxK	688.55	Joback Method
cpg	860.08	J/molxK	715.95	Joback Method
cpg	878.88	J/molxK	743.34	Joback Method
cpg	896.89	J/molxK	770.73	Joback Method
cpg	914.12	J/molxK	798.12	Joback Method
cpg	930.61	J/molxK	825.52	Joback Method
dvisc	0.0034359	Paxs	310.08	Joback Method
dvisc	0.0011313	Paxs	368.59	Joback Method

dvisc	0.0005050	Paxs	427.11	Joback Method
dvisc	0.0002738	Paxs	485.62	Joback Method
dvisc	0.0001694	Paxs	544.13	Joback Method
dvisc	0.0001150	Paxs	602.65	Joback Method
dvisc	0.0000836	Paxs	661.16	Joback Method

Sources

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=R205682&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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
mccvol:	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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