

# 5-Eicosene, (E)-

<b>Other names:</b>	(5E)-5-Icosene [E]-5-Eicosene
<b>Inchi:</b>	InChI=1S/C20H40/c1-3-5-7-9-11-13-15-17-19-20-18-16-14-12-10-8-6-4-2/h9,11H,3-8,10,
<b>InchiKey:</b>	QRJSGJWTKHSNMK-PKQBNSA-N
<b>Formula:</b>	C20H40
<b>SMILES:</b>	CCCCC=CCCCCCCCCCCCCCC
<b>Mol. weight [g/mol]:</b>	280.53
<b>CAS:</b>	74685-30-6

## 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
mvol	288.360	ml/mol	McGowan Method
pc	1050.05	kPa	Joback Method
rinpol	2285.00		NIST Webbook
rinpol	2286.40		NIST Webbook
rinpol	2287.60		NIST Webbook
tb	661.16	K	Joback Method
tc	825.52	K	Joback Method
tf	310.08	K	Joback Method
vc	1.135	m <sup>3</sup> /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

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C74685306&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C74685306&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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