

Ethylidenecyclobutane

Inchi:	InChI=1S/C6H10/c1-2-6-4-3-5-6/h2H,3-5H2,1H3
InchiKey:	FYHISAJRLZLAQP-UHFFFAOYSA-N
Formula:	C6H10
SMILES:	CC=C1CCC1
Mol. weight [g/mol]:	82.14
CAS:	1528-21-8

Physical Properties

Property code	Value	Unit	Source
gf	101.46	kJ/mol	Joback Method
hf	-4.16	kJ/mol	Joback Method
hfus	6.58	kJ/mol	Joback Method
hvap	30.13	kJ/mol	Joback Method
ie	8.70 ± 0.05	eV	NIST Webbook
log10ws	-2.08		Crippen Method
logp	2.117		Crippen Method
mcvol	80.240	ml/mol	McGowan Method
pc	4021.02	kPa	Joback Method
tb	353.41 ± 0.30	K	NIST Webbook
tc	554.25	K	Joback Method
tf	167.78 ± 0.20	K	NIST Webbook
vc	0.304	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	128.51	J/mol×K	359.00	Joback Method
cpg	140.09	J/mol×K	391.54	Joback Method
cpg	151.00	J/mol×K	424.08	Joback Method
cpg	161.28	J/mol×K	456.63	Joback Method
cpg	170.96	J/mol×K	489.17	Joback Method
cpg	180.07	J/mol×K	521.71	Joback Method
cpg	188.65	J/mol×K	554.25	Joback Method
dvisc	0.0016130	Pa×s	186.40	Joback Method

dvisc	0.0009696	Pa×s	215.17	Joback Method
dvisc	0.0006572	Pa×s	243.93	Joback Method
dvisc	0.0004835	Pa×s	272.70	Joback Method
dvisc	0.0003772	Pa×s	301.47	Joback Method
dvisc	0.0003073	Pa×s	330.23	Joback Method
dvisc	0.0002587	Pa×s	359.00	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C1528218&Units=SI
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

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
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/31-619-0/Ethylidenecyclobutane.pdf>

Generated by Cheméo on 2025-12-23 13:56:56.710928057 +0000 UTC m=+6246414.240968710.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.