Cyclohexene, 3-ethenyl-

Inchi: InChI=1S/C8H12/c1-2-8-6-4-3-5-7-8/h2,4,6,8H,1,3,5,7H2
InchiKey: YYTUUFMWKBIPEY-UHFFFAOYSA-N
Formula: C8H12
SMILES: C=CC1C=CCCC1
Mol. weight [g/mol]: 108.18
CAS: 766-03-0

Physical Properties

Property code	Value	Unit	Source
gf	158.73	kJ/mol	Joback Method
hf	29.08	kJ/mol	Joback Method
hfus	8.25	kJ/mol	Joback Method
hvap	33.45	kJ/mol	Joback Method
log10ws	-2.53		Crippen Method
logp	2.529		Crippen Method
mcvol	104.120	ml/mol	McGowan Method
pc	3448.03	kPa	Joback Method
rinpol	825.00		NIST Webbook
rinpol	825.00		NIST Webbook
rinpol	833.00		NIST Webbook
tb	401.90 ± 0.40	K	NIST Webbook
tb	401.90 ± 0.80	K	NIST Webbook
tc	605.48	K	Joback Method
tf	186.30	K	Joback Method
vc	0.384	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	184.71	J/mol×K	397.83	Joback Method
cpg	254.79	J/mol×K	570.87	Joback Method
cpg	242.36	J/mol×K	536.27	Joback Method
cpg	229.16	J/mol×K	501.66	Joback Method
cpg	215.17	J/mol×K	467.05	Joback Method

cpg	200.36	J/mol×K	432.44	Joback Method
cpg	266.50	J/mol×K	605.48	Joback Method
dvisc	0.0002575	Pa×s	397.83	Joback Method
dvisc	0.0003310	Pa×s	362.58	Joback Method
dvisc	0.0004491	Pa×s	327.32	Joback Method
dvisc	0.0006558	Pa×s	292.07	Joback Method
dvisc	0.0010628	Pa×s	256.81	Joback Method
dvisc	0.0020084	Pa×s	221.56	Joback Method
dvisc	0.0048287	Pa×s	186.30	Joback Method

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C766030&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

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

Latest version available from:
https://www.chemeo.com/cid/25-056-2/Cyclohexene-3-ethenyl.pdf

Generated by Cheméo on 2025-12-05 11:33:39.108423684 +0000 UTC m=+4682616.638464366.

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