Cyclohexane, 1,2,4-triethenyl-

Other names: Cyclohexane, 1,2,4-trivinyl-
1,2,4-Trivinylcyclohexane
cyclohexane-1,2,4-triyltris(ethylene)
Inchi: InChI=1S/C12H18/c1-4-10-7-8-11(5-2)12(6-3)9-10/h4-6,10-12H,1-3,7-9H2
InchiKey: KTRQRAQRHBLCSQ-UHFFFAOYSA-N
Formula: C12H18
SMILES: C=CC1CCC(C=C)C(C=C)C1
Mol. weight [g/mol]: 162.27
CAS: 2855-27-8

Physical Properties

Property code	Value	Unit	Source
gf	322.71	kJ/mol	Joback Method
hf	98.92	kJ/mol	Joback Method
hfus	16.97	kJ/mol	Joback Method
hvap	40.11	kJ/mol	Joback Method
log10ws	-3.58		Crippen Method
logp	3.577		Crippen Method
mcvol	156.180	ml/mol	McGowan Method
pc	2256.81	kPa	Joback Method
rinpol	1114.00		NIST Webbook
rinpol	1114.00		NIST Webbook
tb	474.21	K	Joback Method
tc	678.46	K	Joback Method
tf	218.62	K	Joback Method
vc	0.582	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	340.41	J/mol×K	474.21	Joback Method
cpg	360.70	J/mol×K	508.25	Joback Method
cpg	379.92	J/mol×K	542.29	Joback Method
cpg	398.11	J/mol×K	576.33	Joback Method

cpg	415.30	J/mol×K	610.38	Joback Method
cpg	431.53	J/mol×K	644.42	Joback Method
cpg	446.82	J/mol×K	678.46	Joback Method
dvisc	0.0022430	Pa×s	218.62	Joback Method
dvisc	0.0011689	Pa×s	261.22	Joback Method
dvisc	0.0007313	Pa×s	303.82	Joback Method
dvisc	0.0005134	Pa×s	346.41	Joback Method
dvisc	0.0003895	Pa×s	389.01	Joback Method
dvisc	0.0003121	Pa×s	431.61	Joback Method
dvisc	0.0002602	Pa×s	474.21	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	359.70	K	2.70	NIST Webbook

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=C2855278&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
mcvol: McGowan's characteristic volume

pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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