o-Divinylbenzene

Other names: 1,2-divinylbenzene
1,2-diethenylbenzene
Inchi: InChI=1S/C10H10/c1-3-9-7-5-6-8-10(9)4-2/h3-8H,1-2H2
InchiKey: MYRTYDVEIRVNKP-UHFFFAOYSA-N
Formula: C10H10
SMILES: C=Cc1ccccc1C=C
Mol. weight [g/mol]: 130.19
CAS: 91-14-5

Physical Properties

Property code	Value	Unit	Source
gf	311.78	kJ/mol	Joback Method
hf	226.19	kJ/mol	Joback Method
hfus	12.75	kJ/mol	Joback Method
hvap	39.45	kJ/mol	Joback Method
log10ws	-3.12		Crippen Method
logp	2.973		Crippen Method
mcvol	119.400	ml/mol	McGowan Method
pc	3163.27	kPa	Joback Method
rinpol	1102.00		NIST Webbook
tb	453.22	K	Joback Method
tc	668.56	K	Joback Method
tf	237.88	K	Joback Method
vc	0.450	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	224.07	J/mol×K	453.22	Joback Method
cpg	237.39	J/mol×K	489.11	Joback Method
cpg	249.89	J/mol×K	525.00	Joback Method
cpg	261.61	J/mol×K	560.89	Joback Method
cpg	272.58	J/mol×K	596.78	Joback Method
cpg	282.84	J/mol×K	632.67	Joback Method

cpg	292.44	J/mol×K	668.56	Joback Method
dvisc	0.0019528	Pa×s	237.88	Joback Method
dvisc	0.0010628	Pa×s	273.77	Joback Method
dvisc	0.0006660	Pa×s	309.66	Joback Method
dvisc	0.0004599	Pa×s	345.55	Joback Method
dvisc	0.0003405	Pa×s	381.44	Joback Method
dvisc	0.0002655	Pa×s	417.33	Joback Method
dvisc	0.0002153	Pa×s	453.22	Joback Method

Sources

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
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C91145&Units=SI

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

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