

1,2-diiodoethene

Inchi:	InChI=1S/C2H2I2/c3-1-2-4/h1-2H
InchiKey:	CVOGMKGEVNGRSK-UHFFFAOYSA-N
Formula:	C2H2I2
SMILES:	IC=CI
Mol. weight [g/mol]:	279.85

Physical Properties

Property code	Value	Unit	Source
gf	162.42	kJ/mol	Joback Method
hf	186.35	kJ/mol	Joback Method
hfus	9.95	kJ/mol	Joback Method
hvap	38.75	kJ/mol	Joback Method
log10ws	-3.22		Aqueous Solubility Prediction Method
logp	2.328		Crippen Method
mcvol	86.380	ml/mol	McGowan Method
pc	5087.49	kPa	Joback Method
tb	435.60	K	Joback Method
tc	702.05	K	Joback Method
tf	223.34	K	Joback Method
vc	0.303	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	86.01	J/mol×K	435.60	Joback Method
cpg	89.39	J/mol×K	480.01	Joback Method
cpg	92.26	J/mol×K	524.42	Joback Method
cpg	94.69	J/mol×K	568.82	Joback Method
cpg	96.75	J/mol×K	613.23	Joback Method
cpg	98.52	J/mol×K	657.64	Joback Method
cpg	100.07	J/mol×K	702.05	Joback Method
dvisc	0.0055710	Paxs	223.34	Joback Method
dvisc	0.0026954	Paxs	258.72	Joback Method

dvisc	0.0015530	Paxs	294.09	Joback Method
dvisc	0.0010073	Paxs	329.47	Joback Method
dvisc	0.0007105	Paxs	364.85	Joback Method
dvisc	0.0005331	Paxs	400.22	Joback Method
dvisc	0.0004191	Paxs	435.60	Joback Method

Sources

Joback Method: https://en.wikipedia.org/wiki/Joback_method

Aqueous Solubility Prediction Method: <http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa>

McGowan Method: <http://link.springer.com/article/10.1007/BF02311772>

Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci9903071>

Legend

cp_g:	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
h_{vap}:	Enthalpy of vaporization at standard conditions
log₁₀ws:	Log ₁₀ of Water solubility in mol/l
log_p:	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

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