

# 1,2-Diiodopropane

<b>Inchi:</b>	InChI=1S/C3H6I2/c1-3(5)2-4/h3H,2H2,1H3
<b>InchiKey:</b>	ISXPOEJSKALLKA-GSVUUGTGSA-N
<b>Formula:</b>	C3H6I2
<b>SMILES:</b>	CC(I)CI
<b>Mol. weight [g/mol]:</b>	295.89
<b>CAS:</b>	598-29-8

## Physical Properties

Property code	Value	Unit	Source
af	0.2370		KDB
gf	88.18	kJ/mol	Joback Method
hf	35.60 ± 3.40	kJ/mol	NIST Webbook
hfus	8.81	kJ/mol	Joback Method
hvap	40.63	kJ/mol	Joback Method
log10ws	-3.09		Crippen Method
logp	2.245		Crippen Method
mcvol	104.770	ml/mol	McGowan Method
pc	4210.00	kPa	KDB
tb	500.20	K	KDB
tc	780.50	K	KDB
tf	253.00	K	KDB
vc	0.373	m <sup>3</sup> /kmol	KDB
zc	0.2423050		KDB

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	137.82	J/mol×K	453.88	Joback Method
cpg	144.30	J/mol×K	496.28	Joback Method
cpg	150.24	J/mol×K	538.68	Joback Method
cpg	155.69	J/mol×K	581.08	Joback Method
cpg	160.68	J/mol×K	623.48	Joback Method
cpg	165.28	J/mol×K	665.87	Joback Method
cpg	169.53	J/mol×K	708.27	Joback Method

dvisc	0.0089133	Paxs	224.69	Joback Method
dvisc	0.0037433	Paxs	262.89	Joback Method
dvisc	0.0019592	Paxs	301.09	Joback Method
dvisc	0.0011863	Paxs	339.28	Joback Method
dvisc	0.0007951	Paxs	377.48	Joback Method
dvisc	0.0005736	Paxs	415.68	Joback Method
dvisc	0.0004372	Paxs	453.88	Joback Method

## Sources

<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>KDB:</b>	<a href="https://www.cheric.org/research/kdb/hcprop/showprop.php?cmpid=1591">https://www.cheric.org/research/kdb/hcprop/showprop.php?cmpid=1591</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C598298&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C598298&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>

## Legend

<b>af:</b>	Acentric Factor
<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume
<b>zc:</b>	Critical Compressibility

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