

# 3,5-Dinitroiodobenzene

<b>Other names:</b>	Benzene, 1-iodo-3,5-dinitro
<b>Inchi:</b>	InChI=1S/C6H3IN2O4/c7-4-1-5(8(10)11)3-6(2-4)9(12)13/h1-3H
<b>InchiKey:</b>	AISNAASNOWRWIR-UHFFFAOYSA-N
<b>Formula:</b>	C6H3IN2O4
<b>SMILES:</b>	O=[N+]([O-])c1cc(I)cc([N+](=O)[O-])c1
<b>Mol. weight [g/mol]:</b>	294.00
<b>CAS:</b>	6276-04-6

## Physical Properties

Property code	Value	Unit	Source
gf	222.01	kJ/mol	Joback Method
hf	101.77	kJ/mol	Joback Method
hfus	31.69	kJ/mol	Joback Method
hvap	75.10	kJ/mol	Joback Method
log10ws	-3.92		Crippen Method
logp	2.108		Crippen Method
mcvol	132.300	ml/mol	McGowan Method
pc	4498.26	kPa	Joback Method
tb	770.14	K	Joback Method
tc	1078.79	K	Joback Method
tf	554.12	K	Joback Method
vc	0.515	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	280.35	J/molxK	770.14	Joback Method
cpg	287.34	J/molxK	821.58	Joback Method
cpg	293.52	J/molxK	873.02	Joback Method
cpg	298.98	J/molxK	924.46	Joback Method
cpg	303.82	J/molxK	975.91	Joback Method
cpg	308.13	J/molxK	1027.35	Joback Method
cpg	312.00	J/molxK	1078.79	Joback Method

# Sources

<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=C6276046&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C6276046&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<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>h vap:</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

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