

# Benzene, 2-iodo-1,3,5-trinitro-

<b>Other names:</b>	Picryl iodide 1-Iodo-2,4,6-trinitrobenzene
<b>Inchi:</b>	InChI=1S/C6H2IN3O6/c7-6-4(9(13)14)1-3(8(11)12)2-5(6)10(15)16/h1-2H
<b>InchiKey:</b>	ZECBCPLUOMIFAA-UHFFFAOYSA-N
<b>Formula:</b>	C6H2IN3O6
<b>SMILES:</b>	O=[N+](O-)c1cc([N+](=O)[O-])c(I)c([N+](=O)[O-])c1
<b>Mol. weight [g/mol]:</b>	339.00
<b>CAS:</b>	4436-27-5

## Physical Properties

Property code	Value	Unit	Source
gf	247.93	kJ/mol	Joback Method
hf	79.54	kJ/mol	Joback Method
hfus	42.66	kJ/mol	Joback Method
hvap	92.36	kJ/mol	Joback Method
log10ws	-4.57		Crippen Method
logp	2.016		Crippen Method
mvol	149.720	ml/mol	McGowan Method
pc	4480.21	kPa	Joback Method
tb	926.96	K	Joback Method
tc	1246.98	K	Joback Method
tf	710.25	K	Joback Method
vc	0.598	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	342.15	J/molxK	926.96	Joback Method
cpg	347.35	J/molxK	980.30	Joback Method
cpg	351.85	J/molxK	1033.63	Joback Method
cpg	355.73	J/molxK	1086.97	Joback Method
cpg	359.11	J/molxK	1140.31	Joback Method
cpg	362.07	J/molxK	1193.64	Joback Method
cpg	364.73	J/molxK	1246.98	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C4436275&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C4436275&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</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>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</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>hvp:</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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