

# Benzene, (1-iodoethyl)-

<b>Other names:</b>	1-iodo-1-phenylethane (1-Iodoethyl)benzene
<b>Inchi:</b>	InChI=1S/C8H9I/c1-7(9)8-5-3-2-4-6-8/h2-7H,1H3
<b>InchiKey:</b>	HOVGFTKZAOQJEF-UHFFFAOYSA-N
<b>Formula:</b>	C8H9I
<b>SMILES:</b>	CC(I)c1ccccc1
<b>Mol. weight [g/mol]:</b>	232.06
<b>CAS:</b>	10604-60-1

## Physical Properties

Property code	Value	Unit	Source
gf	184.57	kJ/mol	Joback Method
hf	99.67	kJ/mol	Joback Method
hfus	11.40	kJ/mol	Joback Method
hvap	59.90 ± 0.40	kJ/mol	NIST Webbook
log10ws	-3.68		Crippen Method
logp	3.183		Crippen Method
mvol	125.640	ml/mol	McGowan Method
pc	3589.94	kPa	Joback Method
rinpol	1222.00		NIST Webbook
rinpol	1222.00		NIST Webbook
tb	501.82	K	Joback Method
tc	754.86	K	Joback Method
tf	249.40	K	Joback Method
vc	0.458	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	224.01	J/mol×K	501.82	Joback Method
cpg	277.98	J/mol×K	712.69	Joback Method
cpg	268.94	J/mol×K	670.51	Joback Method
cpg	259.09	J/mol×K	628.34	Joback Method
cpg	248.36	J/mol×K	586.17	Joback Method

cpg	236.69	J/mol×K	543.99	Joback Method
cpg	286.27	J/mol×K	754.86	Joback Method
dvisc	0.0002919	Paxs	501.82	Joback Method
dvisc	0.0003831	Paxs	459.75	Joback Method
dvisc	0.0005310	Paxs	417.68	Joback Method
dvisc	0.0007919	Paxs	375.61	Joback Method
dvisc	0.0013062	Paxs	333.54	Joback Method
dvisc	0.0024895	Paxs	291.47	Joback Method
dvisc	0.0058981	Paxs	249.40	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C10604601&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C10604601&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.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.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>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>rinpol:</b>	Non-polar retention indices
<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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