

# Benzene, 1,2-dichloro-3-ethyl-

<b>Other names:</b>	2,3-Dichloroethylbenzene 1,2-Dichloro-3-ethylbenzene 2,5-Dichloro-1,4-dimethylbenzene
<b>Inchi:</b>	InChI=1S/C8H8Cl2/c1-2-6-4-3-5-7(9)8(6)10/h3-5H,2H2,1H3
<b>InchiKey:</b>	KEBKSRNCCOFIBI-UHFFFAOYSA-N
<b>Formula:</b>	C8H8Cl2
<b>SMILES:</b>	CCc1cccc(Cl)c1Cl
<b>Mol. weight [g/mol]:</b>	175.06
<b>CAS:</b>	54484-61-6

## Physical Properties

Property code	Value	Unit	Source
gf	85.77	kJ/mol	Joback Method
hf	-26.34	kJ/mol	Joback Method
hfus	18.13	kJ/mol	Joback Method
hvap	45.77	kJ/mol	Joback Method
log10ws	-3.64		Crippen Method
logp	3.556		Crippen Method
mcvol	124.300	ml/mol	McGowan Method
pc	3231.98	kPa	Joback Method
tb	493.94	K	Joback Method
tc	719.52	K	Joback Method
tf	291.22	K	Joback Method
vc	0.473	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	281.16	J/molxK	719.52	Joback Method
cpg	226.48	J/molxK	493.94	Joback Method
cpg	237.10	J/molxK	531.54	Joback Method
cpg	247.09	J/molxK	569.13	Joback Method
cpg	256.47	J/molxK	606.73	Joback Method
cpg	265.25	J/molxK	644.33	Joback Method

cpg	273.48	J/mol×K	681.92	Joback Method
dvisc	0.0002624	Paxs	493.94	Joback Method
dvisc	0.0017277	Paxs	291.22	Joback Method
dvisc	0.0010719	Paxs	325.01	Joback Method
dvisc	0.0007276	Paxs	358.79	Joback Method
dvisc	0.0005279	Paxs	392.58	Joback Method
dvisc	0.0004030	Paxs	426.37	Joback Method
dvisc	0.0003201	Paxs	460.15	Joback Method
hvapt	48.90	kJ/mol	407.00	NIST Webbook

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C54484616&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C54484616&amp;Units=SI</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>hvapt:</b>	Enthalpy of vaporization at a given temperature
<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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