

# Benzene, 1,3,5-trichloro-2-methoxy-

<b>Other names:</b>	1,3,5-Trichloro-2-methoxybenzene 2,4,6-Trichloroanisole Anisole, 2,4,6-trichloro- Methyl 2,4,6-trichlorophenyl ether Tyrene
<b>Inchi:</b>	InChI=1S/C7H5Cl3O/c1-11-7-5(9)2-4(8)3-6(7)10/h2-3H,1H3
<b>InchiKey:</b>	WCVOGSZTONGSQY-UHFFFAOYSA-N
<b>Formula:</b>	C7H5Cl3O
<b>SMILES:</b>	COc1c(Cl)cc(Cl)cc1Cl
<b>Mol. weight [g/mol]:</b>	211.47
<b>CAS:</b>	87-40-1

## Physical Properties

Property code	Value	Unit	Source
gf	-49.21	kJ/mol	Joback Method
hf	-165.13	kJ/mol	Joback Method
hfus	20.54	kJ/mol	Joback Method
hvap	51.00	kJ/mol	Joback Method
log10ws	-4.20		Aqueous Solubility Prediction Method
logp	3.655		Crippen Method
mcvol	128.320	ml/mol	McGowan Method
pc	3333.53	kPa	Joback Method
rinpol	1333.00		NIST Webbook
rinpol	1291.00		NIST Webbook
rinpol	1298.00		NIST Webbook
rinpol	1331.00		NIST Webbook
rinpol	1350.80		NIST Webbook
rinpol	1319.00		NIST Webbook
rinpol	1345.00		NIST Webbook
rinpol	1305.00		NIST Webbook
rinpol	1327.00		NIST Webbook
rinpol	1330.00		NIST Webbook
rinpol	1322.00		NIST Webbook
rinpol	1339.00		NIST Webbook
rinpol	1302.00		NIST Webbook
rinpol	1350.00		NIST Webbook

ripol	1327.00			NIST Webbook
ripol	1319.00			NIST Webbook
ripol	1350.80			NIST Webbook
ripol	1319.00			NIST Webbook
ripol	1302.00			NIST Webbook
ripol	1813.00			NIST Webbook
ripol	1837.00			NIST Webbook
ripol	1842.00			NIST Webbook
ripol	1805.00			NIST Webbook
ripol	1813.00			NIST Webbook
ripol	1806.00			NIST Webbook
ripol	1768.00			NIST Webbook
ripol	1768.00			NIST Webbook
ripol	1812.00			NIST Webbook
ripol	1832.00			NIST Webbook
ripol	1806.00			NIST Webbook
ripol	1817.00			NIST Webbook
ripol	1794.00			NIST Webbook
ripol	1775.00			NIST Webbook
tb	535.89		K	Joback Method
tc	769.13		K	Joback Method
tf	334.40		K	Aqueous Solubility Prediction Method
vc	0.484		m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	227.05	J/molxK	535.89	Joback Method
cpg	263.76	J/molxK	730.26	Joback Method
cpg	257.31	J/molxK	691.39	Joback Method
cpg	250.41	J/molxK	652.51	Joback Method
cpg	243.06	J/molxK	613.64	Joback Method
cpg	235.28	J/molxK	574.76	Joback Method
cpg	269.77	J/molxK	769.13	Joback Method
dvisc	0.0002296	Paxs	535.89	Joback Method
dvisc	0.0002735	Paxs	504.01	Joback Method
dvisc	0.0003338	Paxs	472.13	Joback Method
dvisc	0.0004192	Paxs	440.26	Joback Method
dvisc	0.0005454	Paxs	408.38	Joback Method
dvisc	0.0007421	Paxs	376.50	Joback Method

## Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	405.20	K	3.70	NIST Webbook
tbrp	513.20	K	98.40	NIST Webbook

## Sources

**Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci9903071>

**Joback Method:** [https://en.wikipedia.org/wiki/Joback\\_method](https://en.wikipedia.org/wiki/Joback_method)

**Aqueous Solubility Prediction Method:** <http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa>

**McGowan Method:** <http://link.springer.com/article/10.1007/BF02311772>

**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=C87401&Units=SI>

## 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>ripol:</b>	Polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tbrp:</b>	Boiling point at reduced pressure
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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