

# 2,3,4-Trimethoxyphenylacetonitrile

<b>Inchi:</b>	InChI=1S/C11H13NO3/c1-13-9-5-4-8(6-7-12)10(14-2)11(9)15-3/h4-5H,6H2,1-3H3
<b>InchiKey:</b>	RZVUKELRMABJPI-UHFFFAOYSA-N
<b>Formula:</b>	C11H13NO3
<b>SMILES:</b>	<chem>COc1ccc(CC#N)c(OC)c1OC</chem>
<b>Mol. weight [g/mol]:</b>	207.23
<b>CAS:</b>	68913-85-9

## Physical Properties

Property code	Value	Unit	Source
gf	-56.56	kJ/mol	Joback Method
hf	-300.03	kJ/mol	Joback Method
hfus	22.19	kJ/mol	Joback Method
hvap	62.05	kJ/mol	Joback Method
log10ws	-2.50		Crippen Method
logp	1.778		Crippen Method
mcvol	161.080	ml/mol	McGowan Method
pc	2347.36	kPa	Joback Method
tb	662.04	K	Joback Method
tc	876.35	K	Joback Method
tf	409.39	K	Joback Method
vc	0.624	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	403.77	J/molxK	662.04	Joback Method
cpg	415.99	J/molxK	697.76	Joback Method
cpg	427.58	J/molxK	733.48	Joback Method
cpg	438.51	J/molxK	769.20	Joback Method
cpg	448.74	J/molxK	804.91	Joback Method
cpg	458.24	J/molxK	840.63	Joback Method
cpg	467.00	J/molxK	876.35	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C68913859&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C68913859&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>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>mccvol:</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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