

# Benzoic acid, 2-[(2,3-dimethylphenyl)amino]-, methyl ester

<b>Other names:</b>	Monomethyl derivative of mefenamic acid Mefenamic acid methyl derivative Mefenamic acid, methyl deriv. Mefenamic acid, methyl ester
<b>Inchi:</b>	InChI=1S/C16H17NO2/c1-11-7-6-10-14(12(11)2)17-15-9-5-4-8-13(15)16(18)19-3/h4-10,1
<b>InchiKey:</b>	LCCVYZLUEHOBDC-UHFFFAOYSA-N
<b>Formula:</b>	C16H17NO2
<b>SMILES:</b>	<chem>COC(=O)c1ccccc1Nc1cccc(C)c1C</chem>
<b>Mol. weight [g/mol]:</b>	255.31
<b>CAS:</b>	1222-42-0

## Physical Properties

Property code	Value	Unit	Source
gf	135.24	kJ/mol	Joback Method
hf	-126.25	kJ/mol	Joback Method
hfus	32.00	kJ/mol	Joback Method
hvap	73.34	kJ/mol	Joback Method
log10ws	-4.47		Crippen Method
logp	3.834		Crippen Method
mcvol	206.200	ml/mol	McGowan Method
pc	2315.84	kPa	Joback Method
rinpol	2110.00		NIST Webbook
tb	760.24	K	Joback Method
tc	993.42	K	Joback Method
tf	485.30	K	Joback Method
vc	0.774	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	569.14	J/molxK	760.24	Joback Method
cpg	583.97	J/molxK	799.10	Joback Method
cpg	597.64	J/molxK	837.97	Joback Method
cpg	610.20	J/molxK	876.83	Joback Method

cpg	621.67	J/mol×K	915.69	Joback Method
cpg	632.10	J/mol×K	954.55	Joback Method
cpg	641.52	J/mol×K	993.42	Joback Method

## Sources

<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=C1222420&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C1222420&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>

## 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>mvol:</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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