

# Benzene,1-methoxy-4-(3-phenylpropyl)-

<b>Other names:</b>	1-Phenyl-3-(4-methoxyphenyl)propane
<b>Inchi:</b>	InChI=1S/C16H18O/c1-17-16-12-10-15(11-13-16)9-5-8-14-6-3-2-4-7-14/h2-4,6-7,10-13H
<b>InchiKey:</b>	SGNYZPBSYNTFID-UHFFFAOYSA-N
<b>Formula:</b>	C16H18O
<b>SMILES:</b>	COc1ccc(CCCc2ccccc2)cc1
<b>Mol. weight [g/mol]:</b>	226.31
<b>CAS:</b>	40715-68-2

## Physical Properties

Property code	Value	Unit	Source
gf	194.03	kJ/mol	Joback Method
hf	-44.20	kJ/mol	Joback Method
hfus	26.08	kJ/mol	Joback Method
hvap	58.83	kJ/mol	Joback Method
ie	8.18 ± 0.05	eV	NIST Webbook
log10ws	-4.43		Crippen Method
logp	3.870		Crippen Method
mcvol	194.650	ml/mol	McGowan Method
pc	2216.62	kPa	Joback Method
tb	646.24	K	Joback Method
tc	873.99	K	Joback Method
tf	357.67	K	Joback Method
vc	0.734	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	499.17	J/molxK	646.24	Joback Method
cpg	517.03	J/molxK	684.20	Joback Method
cpg	533.68	J/molxK	722.16	Joback Method
cpg	549.17	J/molxK	760.12	Joback Method
cpg	563.53	J/molxK	798.08	Joback Method
cpg	576.83	J/molxK	836.03	Joback Method
cpg	589.11	J/molxK	873.99	Joback Method

dvisc	0.0013617	Paxs	357.67	Joback Method
dvisc	0.0007124	Paxs	405.76	Joback Method
dvisc	0.0004276	Paxs	453.86	Joback Method
dvisc	0.0002830	Paxs	501.96	Joback Method
dvisc	0.0002014	Paxs	550.05	Joback Method
dvisc	0.0001513	Paxs	598.14	Joback Method
dvisc	0.0001186	Paxs	646.24	Joback Method

## Sources

<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=C40715682&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C40715682&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>

## 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>ie:</b>	Ionization energy
<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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