

# 1-Adamantanecarboxylic acid, 3-methylphenyl ester

<b>Inchi:</b>	InChI=1S/C18H22O2/c1-12-3-2-4-16(5-12)20-17(19)18-9-13-6-14(10-18)8-15(7-13)11-18
<b>InchiKey:</b>	DYVRJWFCGLMSCP-UHFFFAOYSA-N
<b>Formula:</b>	C18H22O2
<b>SMILES:</b>	Cc1cccc(OC(=O)C23CC4CC(CC(C4)C2)C3)c1
<b>Mol. weight [g/mol]:</b>	270.37

## Physical Properties

Property code	Value	Unit	Source
gf	126.49	kJ/mol	Joback Method
hf	-227.45	kJ/mol	Joback Method
hfus	25.89	kJ/mol	Joback Method
hvap	66.21	kJ/mol	Joback Method
log10ws	-4.75		Crippen Method
logp	4.117		Crippen Method
mcvol	215.580	ml/mol	McGowan Method
pc	2149.31	kPa	Joback Method
rinpol	2134.00		NIST Webbook
tb	739.25	K	Joback Method
tc	980.95	K	Joback Method
tf	473.68	K	Joback Method
vc	0.820	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	666.49	J/molxK	739.25	Joback Method
cpg	686.95	J/molxK	779.53	Joback Method
cpg	706.45	J/molxK	819.82	Joback Method
cpg	725.25	J/molxK	860.10	Joback Method
cpg	743.62	J/molxK	900.38	Joback Method
cpg	761.83	J/molxK	940.67	Joback Method
cpg	780.13	J/molxK	980.95	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=U307659&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U307659&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>

# 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>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpola:</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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