

# 2-(3,4-Dimethylphenyl)adamantane

<b>Inchi:</b>	InChI=1S/C18H24/c1-11-3-4-15(5-12(11)2)18-16-7-13-6-14(9-16)10-17(18)8-13/h3-5,13
<b>InchiKey:</b>	FECFROYZQGWDY-ATTKGGOPSA-N
<b>Formula:</b>	C18H24
<b>SMILES:</b>	<chem>Cc1ccc(C2C3CC4CC(C3)CC2C4)cc1C</chem>
<b>Mol. weight [g/mol]:</b>	240.38

## Physical Properties

Property code	Value	Unit	Source
gf	348.56	kJ/mol	Joback Method
hf	-29.70	kJ/mol	Joback Method
hfus	30.09	kJ/mol	Joback Method
hvap	58.55	kJ/mol	Joback Method
log10ws	-5.26		Crippen Method
logp	4.843		Crippen Method
mvol	208.140	ml/mol	McGowan Method
pc	1896.95	kPa	Joback Method
rinpol	2000.00		NIST Webbook
tb	663.03	K	Joback Method
tc	895.09	K	Joback Method
tf	385.90	K	Joback Method
vc	0.796	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	618.70	J/molxK	663.03	Joback Method
cpg	641.94	J/molxK	701.71	Joback Method
cpg	663.58	J/molxK	740.38	Joback Method
cpg	683.76	J/molxK	779.06	Joback Method
cpg	702.62	J/molxK	817.74	Joback Method
cpg	720.28	J/molxK	856.41	Joback Method
cpg	736.88	J/molxK	895.09	Joback Method
dvisc	0.0025130	Paxs	385.90	Joback Method
dvisc	0.0024398	Paxs	432.09	Joback Method

dvisc	0.0023824	Paxs	478.28	Joback Method
dvisc	0.0023360	Paxs	524.46	Joback Method
dvisc	0.0022979	Paxs	570.65	Joback Method
dvisc	0.0022659	Paxs	616.84	Joback Method
dvisc	0.0022388	Paxs	663.03	Joback Method

## Sources

<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=R202183&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R202183&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.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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>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>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/44-791-5/2-3-4-Dimethylphenyl-adamantane.pdf>

Generated by Cheméo on 2024-04-19 15:47:01.183069864 +0000 UTC m=+15830870.103647186.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.