

# 4-Butylbenzoic acid, 1-adamantylmethyl ester

<b>Inchi:</b>	InChI=1S/C22H30O2/c1-2-3-4-16-5-7-20(8-6-16)21(23)24-15-22-12-17-9-18(13-22)11-19
<b>InchiKey:</b>	OFLCWOOKKFWXER-UHFFFAOYSA-N
<b>Formula:</b>	C22H30O2
<b>SMILES:</b>	CCCCc1ccc(C(=O)OCC23CC4CC(CC(C4)C2)C3)cc1
<b>Mol. weight [g/mol]:</b>	326.47

## Physical Properties

Property code	Value	Unit	Source
gf	160.17	kJ/mol	Joback Method
hf	-310.01	kJ/mol	Joback Method
hfus	36.25	kJ/mol	Joback Method
hvap	75.11	kJ/mol	Joback Method
log10ws	-6.26		Crippen Method
logp	5.402		Crippen Method
mvol	271.940	ml/mol	McGowan Method
pc	1548.78	kPa	Joback Method
rinpol	2533.80		NIST Webbook
rinpol	2533.80		NIST Webbook
tb	830.77	K	Joback Method
tc	1057.09	K	Joback Method
tf	518.76	K	Joback Method
vc	1.044	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	900.79	J/mol×K	830.77	Joback Method
cpg	922.55	J/mol×K	868.49	Joback Method
cpg	943.71	J/mol×K	906.21	Joback Method
cpg	964.51	J/mol×K	943.93	Joback Method
cpg	985.19	J/mol×K	981.65	Joback Method
cpg	1005.96	J/mol×K	1019.37	Joback Method
cpg	1027.08	J/mol×K	1057.09	Joback Method

# Sources

<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>
<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=U292208&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U292208&amp;Units=SI</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>hvp:</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>rinp:</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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