

# Hexadecyl p-toluate

<b>Other names:</b>	Benzoic Acid, 4-methyl, hexadecyl ester p-Toluylic acid, hexadecyl ester
<b>Inchi:</b>	InChI=1S/C24H40O2/c1-3-4-5-6-7-8-9-10-11-12-13-14-15-16-21-26-24(25)23-19-17-22(2)
<b>InchiKey:</b>	HOZUXBBJIHXFNR-UHFFFAOYSA-N
<b>Formula:</b>	C24H40O2
<b>SMILES:</b>	CCCCCCCCCCCCCCCCOC(=O)c1ccc(C)cc1
<b>Mol. weight [g/mol]:</b>	360.57
<b>CAS:</b>	959083-37-5

## Physical Properties

Property code	Value	Unit	Source
gf	20.06	kJ/mol	Joback Method
hf	-558.43	kJ/mol	Joback Method
hfus	54.35	kJ/mol	Joback Method
hvap	81.11	kJ/mol	Joback Method
log10ws	-8.47		Crippen Method
logp	7.633		Crippen Method
mvol	332.700	ml/mol	McGowan Method
pc	1001.44	kPa	Joback Method
rinpol	2730.20		NIST Webbook
rinpol	2730.20		NIST Webbook
tb	856.47	K	Joback Method
tc	1052.40	K	Joback Method
tf	471.34	K	Joback Method
vc	1.296	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1067.56	J/mol×K	856.47	Joback Method
cpg	1086.77	J/mol×K	889.13	Joback Method
cpg	1104.80	J/mol×K	921.78	Joback Method
cpg	1121.70	J/mol×K	954.44	Joback Method
cpg	1137.51	J/mol×K	987.09	Joback Method

cpg	1152.27	J/molxK	1019.75	Joback Method
cpg	1166.02	J/molxK	1052.40	Joback Method
dvisc	0.0007027	Paxs	471.34	Joback Method
dvisc	0.0003343	Paxs	535.53	Joback Method
dvisc	0.0001865	Paxs	599.72	Joback Method
dvisc	0.0001165	Paxs	663.90	Joback Method
dvisc	0.0000790	Paxs	728.09	Joback Method
dvisc	0.0000571	Paxs	792.28	Joback Method
dvisc	0.0000433	Paxs	856.47	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.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=C959083375&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C959083375&amp;Units=SI</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

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