

# N-Benzoyloxycarbonyl-L-tyrosine

<b>Other names:</b>	N-Cbz-L-tyrosine N-Carbobenzoxy-L-tyrosine L-Tyrosine, N-[(phenylmethoxy)carbonyl]-
<b>Inchi:</b>	InChI=1S/C17H17NO5/c19-14-8-6-12(7-9-14)10-15(16(20)21)18-17(22)23-11-13-4-2-1-3
<b>InchiKey:</b>	MCRMUCXATQAAMN-OAHLLOKOSA-N
<b>Formula:</b>	C17H17NO5
<b>SMILES:</b>	O=C(NC(Cc1ccc(O)cc1)C(=O)O)OCc1ccccc1
<b>Mol. weight [g/mol]:</b>	315.32
<b>CAS:</b>	1164-16-5

## Physical Properties

Property code	Value	Unit	Source
gf	-250.25	kJ/mol	Joback Method
hf	-559.88	kJ/mol	Joback Method
hfus	43.70	kJ/mol	Joback Method
hvap	109.63	kJ/mol	Joback Method
log10ws	-3.43		Crippen Method
logp	2.314		Crippen Method
mcvol	233.600	ml/mol	McGowan Method
pc	3028.94	kPa	Joback Method
tb	994.41	K	Joback Method
tc	1229.96	K	Joback Method
tf	666.48	K	Joback Method
vc	0.816	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	732.86	J/molxK	994.41	Joback Method
cpg	743.33	J/molxK	1033.67	Joback Method
cpg	753.33	J/molxK	1072.93	Joback Method
cpg	762.97	J/molxK	1112.19	Joback Method
cpg	772.36	J/molxK	1151.44	Joback Method
cpg	781.63	J/molxK	1190.70	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=C1164165&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C1164165&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>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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