

# Benzenepropanoic acid, «beta»-phenyl-

<b>Other names:</b>	«beta»-Phenylbenzenepropanoic acid 3,3-Diphenylpropionic acid «beta», «beta»-Diphenylpropionic acid Diphenylpropionic acid Hydrocinnamic acid, «beta»-phenyl- Propionic acid, 3,3-diphenyl- 3,3-Diphenylpropanoic acid
<b>Inchi:</b>	InChI=1S/C15H14O2/c16-15(17)11-14(12-7-3-1-4-8-12)13-9-5-2-6-10-13/h1-10,14H,11H
<b>InchiKey:</b>	BZQGAPWJKAYCHR-UHFFFAOYSA-N
<b>Formula:</b>	C15H14O2
<b>SMILES:</b>	O=C(O)CC(c1ccccc1)c1ccccc1
<b>Mol. weight [g/mol]:</b>	226.27
<b>CAS:</b>	606-83-7

## Physical Properties

Property code	Value	Unit	Source
gf	32.06	kJ/mol	Joback Method
hf	-149.96	kJ/mol	Joback Method
hfus	24.85	kJ/mol	Joback Method
hvap	76.57	kJ/mol	Joback Method
log10ws	-3.47		Crippen Method
logp	3.293		Crippen Method
mcvol	182.130	ml/mol	McGowan Method
pc	2976.29	kPa	Joback Method
tb	741.57	K	Joback Method
tc	967.59	K	Joback Method
tf	407.40	K	Joback Method
vc	0.678	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	494.74	J/mol×K	741.57	Joback Method
cpg	507.54	J/mol×K	779.24	Joback Method

cpg	519.32	J/mol×K	816.91	Joback Method
cpg	530.15	J/mol×K	854.58	Joback Method
cpg	540.11	J/mol×K	892.25	Joback Method
cpg	549.26	J/mol×K	929.92	Joback Method
cpg	557.67	J/mol×K	967.59	Joback Method
dvisc	0.0022784	Paxs	407.40	Joback Method
dvisc	0.0007435	Paxs	463.10	Joback Method
dvisc	0.0003086	Paxs	518.79	Joback Method
dvisc	0.0001519	Paxs	574.49	Joback Method
dvisc	0.0000847	Paxs	630.18	Joback Method
dvisc	0.0000520	Paxs	685.88	Joback Method
dvisc	0.0000343	Paxs	741.57	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=C606837&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C606837&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>
<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>mccvol:</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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