

# Cyclobutanecarboxylic acid, 4-biphenyl ester

<b>Inchi:</b>	InChI=1S/C17H16O2/c18-17(15-7-4-8-15)19-16-11-9-14(10-12-16)13-5-2-1-3-6-13/h1-3,
<b>InchiKey:</b>	ZQNORTRYBZAUBN-UHFFFAOYSA-N
<b>Formula:</b>	C17H16O2
<b>SMILES:</b>	O=C(Oc1ccc(-c2ccccc2)cc1)C1CCC1
<b>Mol. weight [g/mol]:</b>	252.31

## Physical Properties

Property code	Value	Unit	Source
gf	122.18	kJ/mol	Joback Method
hf	-110.78	kJ/mol	Joback Method
hfus	26.30	kJ/mol	Joback Method
hvap	67.89	kJ/mol	Joback Method
log10ws	-5.30		Crippen Method
logp	4.059		Crippen Method
mcvol	199.450	ml/mol	McGowan Method
pc	2495.01	kPa	Joback Method
rinsol	2257.00		NIST Webbook
tb	734.00	K	Joback Method
tc	985.83	K	Joback Method
tf	433.29	K	Joback Method
vc	0.745	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	558.31	J/molxK	734.00	Joback Method
cpg	575.62	J/molxK	775.97	Joback Method
cpg	591.45	J/molxK	817.94	Joback Method
cpg	605.89	J/molxK	859.91	Joback Method
cpg	619.04	J/molxK	901.88	Joback Method
cpg	631.01	J/molxK	943.86	Joback Method
cpg	641.88	J/molxK	985.83	Joback Method
dvisc	0.0014537	Paxs	433.29	Joback Method
dvisc	0.0009024	Paxs	483.41	Joback Method

dvisc	0.0006127	Paxs	533.53	Joback Method
dvisc	0.0004446	Paxs	583.64	Joback Method
dvisc	0.0003394	Paxs	633.76	Joback Method
dvisc	0.0002696	Paxs	683.88	Joback Method
dvisc	0.0002209	Paxs	734.00	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=U355165&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U355165&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>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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