

# 1,2-Cyclohexanedicarboxylic acid, 2-biphenyl butyl ester

Inchi:	InChI=1S/C24H28O4/c1-2-3-17-27-23(25)20-14-7-8-15-21(20)24(26)28-22-16-10-9-13-1
InchiKey:	AVRHQIICPUNRRP-UHFFFAOYSA-N
Formula:	C24H28O4
SMILES:	CCCCOC(=O)C1CCCCC1C(=O)Oc1ccccc1-c1ccccc1
Mol. weight [g/mol]:	380.48

## Physical Properties

Property code	Value	Unit	Source
gf	-84.71	kJ/mol	Joback Method
hf	-532.72	kJ/mol	Joback Method
hfus	44.09	kJ/mol	Joback Method
hvap	92.66	kJ/mol	Joback Method
log10ws	-6.85		Crippen Method
logp	5.409		Crippen Method
mvol	305.520	ml/mol	McGowan Method
pc	1466.85	kPa	Joback Method
rinpol	2778.00		NIST Webbook
rinpol	2778.00		NIST Webbook
tb	974.32	K	Joback Method
tc	1214.61	K	Joback Method
tf	573.06	K	Joback Method
vc	1.143	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1014.67	J/molxK	974.32	Joback Method
cpg	1029.18	J/molxK	1014.37	Joback Method
cpg	1041.85	J/molxK	1054.42	Joback Method
cpg	1052.74	J/molxK	1094.47	Joback Method
cpg	1061.90	J/molxK	1134.52	Joback Method
cpg	1069.40	J/molxK	1174.56	Joback Method
cpg	1075.30	J/molxK	1214.61	Joback Method
dvisc	0.0004358	Paxs	573.06	Joback Method

dvisc	0.0002432	Paxs	639.94	Joback Method
dvisc	0.0001515	Paxs	706.81	Joback Method
dvisc	0.0001025	Paxs	773.69	Joback Method
dvisc	0.0000738	Paxs	840.57	Joback Method
dvisc	0.0000557	Paxs	907.44	Joback Method
dvisc	0.0000437	Paxs	974.32	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=U339594&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U339594&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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