

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

Inchi:	InChI=1S/C22H24O4/c1-2-25-21(23)18-13-6-7-14-19(18)22(24)26-20-15-9-8-12-17(20)1
InchiKey:	GMZVCHXNGJYGBY-UHFFFAOYSA-N
Formula:	C22H24O4
SMILES:	CCOC(=O)C1CCCCC1C(=O)Oc1ccccc1-c1ccccc1
Mol. weight [g/mol]:	352.42

## Physical Properties

Property code	Value	Unit	Source
gf	-101.55	kJ/mol	Joback Method
hf	-491.44	kJ/mol	Joback Method
hfus	38.91	kJ/mol	Joback Method
hvap	88.21	kJ/mol	Joback Method
log10ws	-6.01		Crippen Method
logp	4.628		Crippen Method
mvol	277.340	ml/mol	McGowan Method
pc	1708.95	kPa	Joback Method
rinpol	2605.00		NIST Webbook
rinpol	2605.00		NIST Webbook
tb	928.56	K	Joback Method
tc	1173.03	K	Joback Method
tf	550.52	K	Joback Method
vc	1.032	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	895.91	J/molxK	928.56	Joback Method
cpg	910.92	J/molxK	969.31	Joback Method
cpg	924.09	J/molxK	1010.05	Joback Method
cpg	935.47	J/molxK	1050.80	Joback Method
cpg	945.11	J/molxK	1091.54	Joback Method
cpg	953.06	J/molxK	1132.29	Joback Method
cpg	959.38	J/molxK	1173.03	Joback Method
dvisc	0.0005365	Paxs	550.52	Joback Method

dvisc	0.0003060	Paxs	613.53	Joback Method
dvisc	0.0001937	Paxs	676.53	Joback Method
dvisc	0.0001326	Paxs	739.54	Joback Method
dvisc	0.0000963	Paxs	802.55	Joback Method
dvisc	0.0000733	Paxs	865.55	Joback Method
dvisc	0.0000579	Paxs	928.56	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=U339593&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U339593&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>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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