

# 1,2-Cyclohexanedicarboxylic acid, 4-bromophenyl butyl ester

<b>Inchi:</b>	InChI=1S/C18H23BrO4/c1-2-3-12-22-17(20)15-6-4-5-7-16(15)18(21)23-14-10-8-13(19)9
<b>InchiKey:</b>	JIHVSMPVLFOEED-UHFFFAOYSA-N
<b>Formula:</b>	C18H23BrO4
<b>SMILES:</b>	CCCCOC(=O)C1CCCCC1C(=O)Oc1ccc(Br)cc1
<b>Mol. weight [g/mol]:</b>	383.28

## Physical Properties

Property code	Value	Unit	Source
gf	-233.32	kJ/mol	Joback Method
hf	-619.08	kJ/mol	Joback Method
hfus	39.79	kJ/mol	Joback Method
hvap	83.47	kJ/mol	Joback Method
log10ws	-5.41		Crippen Method
logp	4.504		Crippen Method
mcvol	262.240	ml/mol	McGowan Method
pc	1895.30	kPa	Joback Method
rinpol	2545.00		NIST Webbook
tb	876.52	K	Joback Method
tc	1109.19	K	Joback Method
tf	538.82	K	Joback Method
vc	0.978	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	799.30	J/molxK	876.52	Joback Method
cpg	860.07	J/molxK	1070.41	Joback Method
cpg	850.83	J/molxK	1031.63	Joback Method
cpg	840.17	J/molxK	992.85	Joback Method
cpg	828.05	J/molxK	954.08	Joback Method
cpg	814.43	J/molxK	915.30	Joback Method
cpg	867.92	J/molxK	1109.19	Joback Method
dvisc	0.0000778	Paxs	876.52	Joback Method
dvisc	0.0000975	Paxs	820.24	Joback Method

dvisc	0.0001264	Paxs	763.95	Joback Method
dvisc	0.0001706	Paxs	707.67	Joback Method
dvisc	0.0002427	Paxs	651.39	Joback Method
dvisc	0.0003690	Paxs	595.10	Joback Method
dvisc	0.0006124	Paxs	538.82	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=U339627&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U339627&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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