

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

<b>Inchi:</b>	InChI=1S/C22H31BrO4/c1-2-3-4-5-6-9-16-26-21(24)19-10-7-8-11-20(19)22(25)27-18-14
<b>InchiKey:</b>	KMAOVLZXJHOARO-UHFFFAOYSA-N
<b>Formula:</b>	C22H31BrO4
<b>SMILES:</b>	CCCCCCCCOC(=O)C1CCCCC1C(=O)Oc1ccc(Br)cc1
<b>Mol. weight [g/mol]:</b>	439.38

## Physical Properties

Property code	Value	Unit	Source
gf	-199.64	kJ/mol	Joback Method
hf	-701.64	kJ/mol	Joback Method
hfus	50.15	kJ/mol	Joback Method
hvap	92.37	kJ/mol	Joback Method
log10ws	-7.08		Crippen Method
logp	6.065		Crippen Method
mcvol	318.600	ml/mol	McGowan Method
pc	1391.25	kPa	Joback Method
rinpol	2945.00		NIST Webbook
tb	968.04	K	Joback Method
tc	1196.34	K	Joback Method
tf	583.90	K	Joback Method
vc	1.202	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1036.07	J/molxK	968.04	Joback Method
cpg	1050.87	J/molxK	1006.09	Joback Method
cpg	1064.06	J/molxK	1044.14	Joback Method
cpg	1075.69	J/molxK	1082.19	Joback Method
cpg	1085.80	J/molxK	1120.24	Joback Method
cpg	1094.44	J/molxK	1158.29	Joback Method
cpg	1101.66	J/molxK	1196.34	Joback Method
dvisc	0.0003992	Paxs	583.90	Joback Method
dvisc	0.0002299	Paxs	647.92	Joback Method

dvisc	0.0001462	Paxs	711.95	Joback Method
dvisc	0.0001002	Paxs	775.97	Joback Method
dvisc	0.0000727	Paxs	839.99	Joback Method
dvisc	0.0000552	Paxs	904.02	Joback Method
dvisc	0.0000435	Paxs	968.04	Joback Method

## Sources

<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=U339631&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U339631&amp;Units=SI</a>
<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>

## 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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