

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

<b>Inchi:</b>	InChI=1S/C20H27BrO4/c1-14(2)6-5-13-24-19(22)17-7-3-4-8-18(17)20(23)25-16-11-9-15
<b>InchiKey:</b>	WPSGAXINKIMSBJ-UHFFFAOYSA-N
<b>Formula:</b>	C20H27BrO4
<b>SMILES:</b>	CC(C)CCCOC(=O)C1CCCCC1C(=O)Oc1ccc(Br)cc1
<b>Mol. weight [g/mol]:</b>	411.33

## Physical Properties

Property code	Value	Unit	Source
gf	-218.92	kJ/mol	Joback Method
hf	-665.64	kJ/mol	Joback Method
hfus	41.45	kJ/mol	Joback Method
hvap	87.53	kJ/mol	Joback Method
log10ws	-6.00		Crippen Method
logp	5.140		Crippen Method
mvol	290.420	ml/mol	McGowan Method
pc	1624.60	kPa	Joback Method
rinpol	2695.00		NIST Webbook
rinpol	2695.00		NIST Webbook
tb	921.84	K	Joback Method
tc	1153.38	K	Joback Method
tf	546.36	K	Joback Method
vc	1.083	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	917.02	J/molxK	921.84	Joback Method
cpg	932.13	J/molxK	960.43	Joback Method
cpg	945.64	J/molxK	999.02	Joback Method
cpg	957.58	J/molxK	1037.61	Joback Method
cpg	968.00	J/molxK	1076.20	Joback Method
cpg	976.94	J/molxK	1114.79	Joback Method
cpg	984.42	J/molxK	1153.38	Joback Method
dvisc	0.0005424	Paxs	546.36	Joback Method

dvisc	0.0003021	Paxs	608.94	Joback Method
dvisc	0.0001876	Paxs	671.52	Joback Method
dvisc	0.0001264	Paxs	734.10	Joback Method
dvisc	0.0000906	Paxs	796.68	Joback Method
dvisc	0.0000682	Paxs	859.26	Joback Method
dvisc	0.0000533	Paxs	921.84	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U339629&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U339629&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>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</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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