

# Sebacic acid, 4-bromophenyl isoheptyl ester

<b>Inchi:</b>	InChI=1S/C22H33BrO4/c1-18(2)10-9-17-26-21(24)11-7-5-3-4-6-8-12-22(25)27-20-15-13
<b>InchiKey:</b>	XHEDREBGWADVJTJ-UHFFFAOYSA-N
<b>Formula:</b>	C22H33BrO4
<b>SMILES:</b>	CC(C)CCCOC(=O)CCCCCCCC(=O)Oc1ccc(Br)cc1
<b>Mol. weight [g/mol]:</b>	441.40

## Physical Properties

Property code	Value	Unit	Source
gf	-218.82	kJ/mol	Joback Method
hf	-740.90	kJ/mol	Joback Method
hfus	53.72	kJ/mol	Joback Method
hvap	91.86	kJ/mol	Joback Method
log10ws	-7.43		Crippen Method
logp	6.455		Crippen Method
mcvol	329.460	ml/mol	McGowan Method
pc	1235.48	kPa	Joback Method
rinpol	3061.00		NIST Webbook
tb	952.72	K	Joback Method
tc	1169.39	K	Joback Method
tf	565.76	K	Joback Method
vc	1.264	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1038.17	J/molxK	952.72	Joback Method
cpg	1053.06	J/molxK	988.83	Joback Method
cpg	1066.69	J/molxK	1024.94	Joback Method
cpg	1079.08	J/molxK	1061.05	Joback Method
cpg	1090.30	J/molxK	1097.16	Joback Method
cpg	1100.39	J/molxK	1133.28	Joback Method
cpg	1109.38	J/molxK	1169.39	Joback Method
dvisc	0.0003371	Paxs	565.76	Joback Method
dvisc	0.0001815	Paxs	630.25	Joback Method

dvisc	0.0001096	Paxs	694.75	Joback Method
dvisc	0.0000721	Paxs	759.24	Joback Method
dvisc	0.0000507	Paxs	823.73	Joback Method
dvisc	0.0000375	Paxs	888.23	Joback Method
dvisc	0.0000289	Paxs	952.72	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=U354767&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U354767&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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