

# Glutaric acid, decyl 2-iodobenzyl ester

<b>Inchi:</b>	InChI=1S/C22H33IO4/c1-2-3-4-5-6-7-8-11-17-26-21(24)15-12-16-22(25)27-18-19-13-9-1
<b>InchiKey:</b>	YWVXFRIDHUQTHF-UHFFFAOYSA-N
<b>Formula:</b>	C22H33IO4
<b>SMILES:</b>	CCCCCCCCCOC(=O)CCCC(=O)OCc1ccccc1I
<b>Mol. weight [g/mol]:</b>	488.40

## Physical Properties

Property code	Value	Unit	Source
gf	-172.58	kJ/mol	Joback Method
hf	-685.08	kJ/mol	Joback Method
hfus	56.37	kJ/mol	Joback Method
hvap	95.19	kJ/mol	Joback Method
log10ws	-7.50		Crippen Method
logp	6.189		Crippen Method
mcvol	337.780	ml/mol	McGowan Method
pc	1153.78	kPa	Joback Method
rinpol	3101.00		NIST Webbook
rinpol	3101.00		NIST Webbook
tb	980.14	K	Joback Method
tc	1202.94	K	Joback Method
tf	579.02	K	Joback Method
vc	1.296	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1049.16	J/molxK	980.14	Joback Method
cpg	1063.47	J/molxK	1017.27	Joback Method
cpg	1076.50	J/molxK	1054.41	Joback Method
cpg	1088.32	J/molxK	1091.54	Joback Method
cpg	1098.96	J/molxK	1128.67	Joback Method
cpg	1108.49	J/molxK	1165.80	Joback Method
cpg	1116.95	J/molxK	1202.94	Joback Method
dvisc	0.0003262	Paxs	579.02	Joback Method

dvisc	0.0001759	Paxs	645.87	Joback Method
dvisc	0.0001065	Paxs	712.73	Joback Method
dvisc	0.0000702	Paxs	779.58	Joback Method
dvisc	0.0000495	Paxs	846.43	Joback Method
dvisc	0.0000367	Paxs	913.29	Joback Method
dvisc	0.0000284	Paxs	980.14	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=U376885&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U376885&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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