

# Glutaric acid, 2,6-difluoro-4-bromobenzyl dodecyl ester

<b>Inchi:</b>	InChI=1S/C24H35BrF2O4/c1-2-3-4-5-6-7-8-9-10-11-15-30-23(28)13-12-14-24(29)31-18-
<b>InchiKey:</b>	HDJQDIPFTDYFAF-UHFFFAOYSA-N
<b>Formula:</b>	C24H35BrF2O4
<b>SMILES:</b>	CCCCCCCCCCCCOC(=O)CCCC(=O)OCc1c(F)cc(Br)cc1F
<b>Mol. weight [g/mol]:</b>	505.43

## Physical Properties

Property code	Value	Unit	Source
gf	-608.42	kJ/mol	Joback Method
hf	-1192.06	kJ/mol	Joback Method
hfus	67.81	kJ/mol	Joback Method
hvap	96.39	kJ/mol	Joback Method
log10ws	-9.02		Crippen Method
logp	7.405		Crippen Method
mvol	361.180	ml/mol	McGowan Method
pc	998.28	kPa	Joback Method
rinpol	3104.00		NIST Webbook
rinpol	3104.00		NIST Webbook
tb	1007.42	K	Joback Method
tc	1235.09	K	Joback Method
tf	629.52	K	Joback Method
vc	1.417	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1171.21	J/molxK	1007.42	Joback Method
cpg	1186.14	J/molxK	1045.37	Joback Method
cpg	1199.60	J/molxK	1083.31	Joback Method
cpg	1211.64	J/molxK	1121.26	Joback Method
cpg	1222.31	J/molxK	1159.20	Joback Method
cpg	1231.66	J/molxK	1197.15	Joback Method
cpg	1239.73	J/molxK	1235.09	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=U376828&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U376828&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</a>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<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>hvp:</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>rinp:</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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