

# Succinic acid, 4-bromo-2,6-difluorobenzyl tetradecyl ester

Inchi:	InChI=1S/C25H37BrF2O4/c1-2-3-4-5-6-7-8-9-10-11-12-13-16-31-24(29)14-15-25(30)32-
InchiKey:	HTUZIJXYUAXCTE-UHFFFAOYSA-N
Formula:	C25H37BrF2O4
SMILES:	CCCCCCCCCCCCCOC(=O)CCC(=O)OCc1c(F)cc(Br)cc1F
Mol. weight [g/mol]:	519.46

## Physical Properties

Property code	Value	Unit	Source
gf	-600.00	kJ/mol	Joback Method
hf	-1212.70	kJ/mol	Joback Method
hfus	70.40	kJ/mol	Joback Method
hvap	98.62	kJ/mol	Joback Method
log10ws	-9.44		Crippen Method
logp	7.795		Crippen Method
mcvol	375.270	ml/mol	McGowan Method
pc	940.37	kPa	Joback Method
rinpol	3148.00		NIST Webbook
rinpol	3148.00		NIST Webbook
tb	1030.30	K	Joback Method
tc	1265.68	K	Joback Method
tf	640.79	K	Joback Method
vc	1.474	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1232.63	J/molxK	1030.30	Joback Method
cpg	1247.90	J/molxK	1069.53	Joback Method
cpg	1261.60	J/molxK	1108.76	Joback Method
cpg	1273.76	J/molxK	1147.99	Joback Method
cpg	1284.46	J/molxK	1187.22	Joback Method
cpg	1293.73	J/molxK	1226.45	Joback Method
cpg	1301.65	J/molxK	1265.68	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U381165&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U381165&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>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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