

# Flexo plasticizer 8n8

<b>Other names:</b>	2-Ethylhexamide, n,n-bis(2-ethylhexoate ethyl) 2-((2-Ethylhexanoyl)(2-[(2-ethylhexanoyl)oxy]ethyl)amino)ethyl 2-ethylhexanoate
<b>Inchi:</b>	InChI=1S/C28H53NO5/c1-7-13-16-23(10-4)26(30)29(19-21-33-27(31)24(11-5)17-14-8-2)
<b>InchiKey:</b>	YYIIMEOVMYJQST-UHFFFAOYSA-N
<b>Formula:</b>	C28H53NO5
<b>SMILES:</b>	CCCCC(CC)C(=O)OCCN(CCOC(=O)C(CC)CCCC)C(=O)C(CC)CCCC
<b>Mol. weight [g/mol]:</b>	483.72
<b>CAS:</b>	134-67-8

## Physical Properties

Property code	Value	Unit	Source
gf	-308.42	kJ/mol	Joback Method
hf	-1171.74	kJ/mol	Joback Method
hfus	67.90	kJ/mol	Joback Method
hvap	103.86	kJ/mol	Joback Method
log10ws	-6.89		Crippen Method
logp	6.551		Crippen Method
mvol	431.810	ml/mol	McGowan Method
pc	719.14	kPa	Joback Method
tb	1057.61	K	Joback Method
tc	1317.34	K	Joback Method
tf	587.04	K	Joback Method
vc	1.657	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1538.29	J/molxK	1057.61	Joback Method
cpg	1558.56	J/molxK	1100.90	Joback Method
cpg	1576.53	J/molxK	1144.19	Joback Method
cpg	1592.31	J/molxK	1187.48	Joback Method
cpg	1606.00	J/molxK	1230.77	Joback Method
cpg	1617.73	J/molxK	1274.06	Joback Method
cpg	1627.58	J/molxK	1317.34	Joback Method

# Sources

<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=C134678&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C134678&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>

# 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>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>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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