

# Diethylene glycol monobenzoate

<b>Other names:</b>	2-(2-hydroxyethoxy)ethyl benzoate
<b>Inchi:</b>	InChI=1S/C11H14O4/c12-6-7-14-8-9-15-11(13)10-4-2-1-3-5-10/h1-5,12H,6-9H2
<b>InchiKey:</b>	DNUPYEDSAQDUSO-UHFFFAOYSA-N
<b>Formula:</b>	C11H14O4
<b>SMILES:</b>	O=C(OCCOCCO)c1ccccc1
<b>Mol. weight [g/mol]:</b>	210.23
<b>CAS:</b>	20587-61-5

## Physical Properties

Property code	Value	Unit	Source
gf	-321.59	kJ/mol	Joback Method
hf	-563.09	kJ/mol	Joback Method
hfus	26.35	kJ/mol	Joback Method
hvap	70.60	kJ/mol	Joback Method
log10ws	-1.32		Crippen Method
logp	0.852		Crippen Method
mcvol	161.270	ml/mol	McGowan Method
pc	3012.33	kPa	Joback Method
tb	668.65	K	Joback Method
tc	863.43	K	Joback Method
tf	395.36	K	Joback Method
vc	0.605	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	424.70	J/molxK	668.65	Joback Method
cpg	436.35	J/molxK	701.11	Joback Method
cpg	447.33	J/molxK	733.58	Joback Method
cpg	457.64	J/molxK	766.04	Joback Method
cpg	467.30	J/molxK	798.50	Joback Method
cpg	476.31	J/molxK	830.97	Joback Method
cpg	484.67	J/molxK	863.43	Joback Method
dvisc	0.0017511	Paxs	395.36	Joback Method

dvisc	0.0006854	Paxs	440.91	Joback Method
dvisc	0.0003198	Paxs	486.46	Joback Method
dvisc	0.0001700	Paxs	532.00	Joback Method
dvisc	0.0000999	Paxs	577.55	Joback Method
dvisc	0.0000634	Paxs	623.10	Joback Method
dvisc	0.0000428	Paxs	668.65	Joback Method

## Sources

<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=C20587615&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C20587615&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.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>

## Legend

<b>cp<sub>g</sub>:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>g<sub>f</sub>:</b>	Standard Gibbs free energy of formation
<b>h<sub>f</sub>:</b>	Enthalpy of formation at standard conditions
<b>h<sub>fus</sub>:</b>	Enthalpy of fusion at standard conditions
<b>h<sub>vap</sub>:</b>	Enthalpy of vaporization at standard conditions
<b>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>log<sub>p</sub>:</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

Latest version available from:

<https://www.chemeo.com/cid/94-716-3/Diethylene-glycol-monobenzoate.pdf>

Generated by Cheméo on 2024-04-28 04:27:59.397899594 +0000 UTC m=+16567728.318476920.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.