

# Adipic acid divinyl ester

<b>Other names:</b>	Hexanedioic acid, diethenyl ester Divinyladipate Hexanedionic acid, diethenyl ester
<b>Inchi:</b>	InChI=1S/C10H14O4/c1-3-13-9(11)7-5-6-8-10(12)14-4-2/h3-4H,1-2,5-8H2
<b>InchiKey:</b>	JZQAAQZDDMEFGZ-UHFFFAOYSA-N
<b>Formula:</b>	C10H14O4
<b>SMILES:</b>	C=COC(=O)CCCCC(=O)OC=C
<b>Mol. weight [g/mol]:</b>	198.22
<b>CAS:</b>	4074-90-2

## Physical Properties

Property code	Value	Unit	Source
gf	-258.84	kJ/mol	Joback Method
hf	-488.47	kJ/mol	Joback Method
hfus	24.67	kJ/mol	Joback Method
hvap	54.83	kJ/mol	Joback Method
log10ws	-2.43		Crippen Method
logp	1.920		Crippen Method
mcvol	158.040	ml/mol	McGowan Method
pc	2495.01	kPa	Joback Method
rinpol	1295.00		NIST Webbook
rinpol	1295.00		NIST Webbook
tb	574.14	K	Joback Method
tc	760.60	K	Joback Method
tf	343.26	K	Joback Method
vc	0.606	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	375.22	J/mol×K	574.14	Joback Method
cpg	429.73	J/mol×K	729.52	Joback Method
cpg	419.89	J/mol×K	698.44	Joback Method
cpg	409.53	J/mol×K	667.37	Joback Method

cpg	398.63	J/molxK	636.29	Joback Method
cpg	387.19	J/molxK	605.22	Joback Method
cpg	439.03	J/molxK	760.60	Joback Method
dvisc	0.0002023	Paxs	574.14	Joback Method
dvisc	0.0002552	Paxs	535.66	Joback Method
dvisc	0.0003338	Paxs	497.18	Joback Method
dvisc	0.0004567	Paxs	458.70	Joback Method
dvisc	0.0006618	Paxs	420.22	Joback Method
dvisc	0.0010336	Paxs	381.74	Joback Method
dvisc	0.0017838	Paxs	343.26	Joback Method

## Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	377.00	K	0.80	NIST Webbook

## 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=C4074902&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C4074902&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>tbrp:</b>	Boiling point at reduced pressure
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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