

# 2,6-Naphthalenedicarboxylic acid

<b>Other names:</b>	2,6-naphthalic acid naphthalene-2,6-dicarboxylic acid
<b>Inchi:</b>	InChI=1S/C12H8O4/c13-11(14)9-3-1-7-5-10(12(15)16)4-2-8(7)6-9/h1-6H,(H,13,14)(H,15)
<b>InchiKey:</b>	RXOHFPCZGPKIRD-UHFFFAOYSA-N
<b>Formula:</b>	C12H8O4
<b>SMILES:</b>	O=C(O)c1ccc2cc(C(=O)O)ccc2c1
<b>Mol. weight [g/mol]:</b>	216.19
<b>CAS:</b>	1141-38-4

## Physical Properties

Property code	Value	Unit	Source
chs	-5095.19 ± 0.78	kJ/mol	NIST Webbook
gf	-281.52	kJ/mol	Joback Method
hf	-415.97	kJ/mol	Joback Method
hfs	-770.25 ± 0.96	kJ/mol	NIST Webbook
hfus	28.49	kJ/mol	Joback Method
hvap	94.40	kJ/mol	Joback Method
log10ws	-3.40		Crippen Method
logp	2.236		Crippen Method
mcvol	151.600	ml/mol	McGowan Method
pc	4362.63	kPa	Joback Method
tb	821.68	K	Joback Method
tc	1035.21	K	Joback Method
tf	530.66	K	Joback Method
vc	0.572	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	406.62	J/mol×K	821.68	Joback Method
cpg	413.86	J/mol×K	857.27	Joback Method
cpg	420.61	J/mol×K	892.86	Joback Method
cpg	426.90	J/mol×K	928.45	Joback Method
cpg	432.80	J/mol×K	964.03	Joback Method

cpg	438.35	J/molxK	999.62	Joback Method
cpg	443.61	J/molxK	1035.21	Joback Method
cps	230.30	J/molxK	298.15	NIST Webbook
dvisc	0.0004215	Paxs	530.66	Joback Method
dvisc	0.0001913	Paxs	579.16	Joback Method
dvisc	0.0000981	Paxs	627.67	Joback Method
dvisc	0.0000554	Paxs	676.17	Joback Method
dvisc	0.0000337	Paxs	724.67	Joback Method
dvisc	0.0000219	Paxs	773.18	Joback Method
dvisc	0.0000149	Paxs	821.68	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=C1141384&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C1141384&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.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Thermodynamic Properties and Crystal Structures of the Adductive</b>	<a href="https://www.doi.org/10.1021/je2009973">https://www.doi.org/10.1021/je2009973</a>
<b>Joback Method</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>2,6-Pyridinedicarboxylic Acid Crystallization with N,N-Dimethyl Acetamide and N-Methyl Pyrrolidone:</b>	

## Legend

<b>chs:</b>	Standard solid enthalpy of combustion
<b>cpg:</b>	Ideal gas heat capacity
<b>cps:</b>	Solid phase 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>hfs:</b>	Solid phase 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

**vc:** Critical Volume

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