

Sodium propionate

Inchi: InChI=1S/C3H6O2.Na/c1-2-3(4)5;/h2H2,1H3,(H,4,5);/q;+1/p-1
InchiKey: JXKPEJDQGNYSM-UHFFFAOYSA-M
Formula: C3H5NaO2
SMILES: CCC(=O)[O-].[Na+]
Mol. weight [g/mol]: 96.06

Physical Properties

Property code	Value	Unit	Source
af	0.1196		Cheméo Relay (1.0)
gf	-183.35	kJ/mol	Cheméo Relay (1.0, beta)
hf	-518.01	kJ/mol	Cheméo Relay (1.0)
hvap	35.01	kJ/mol	Cheméo Relay (1.0)
ie	6.90	eV	Cheméo Relay (1.0)
log10ws	-0.02		Cheméo Relay (1.0)
pc	3620.23	kPa	Cheméo Relay (1.0, beta)
tb	605.59	K	Cheméo Relay (1.0)
tc	888.66	K	Cheméo Relay (1.0)
tf	592.60	K	Cheméo Relay (1.0)
vc	0.195	m3/kmol	Cheméo Relay (1.0)

Sources

Cheméo Relay (1.0):

Cheméo Relay (1.0, beta):

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=B6010184&Units=SI>

Legend

af: Acentric Factor
gf: Standard Gibbs free energy of formation
hf: Enthalpy of formation at standard conditions

h_{vap}:	Enthalpy of vaporization at standard conditions
i_e:	Ionization energy
log₁₀w_s:	Log10 of Water solubility in mol/l
p_c:	Critical Pressure
t_b:	Normal Boiling Point Temperature
t_c:	Critical Temperature
t_f:	Normal melting (fusion) point
v_c:	Critical Volume

Latest version available from:

<https://www.cheméo.com/cid/98-731-2/Sodium-propionate.pdf>

Generated by Cheméo on 2026-07-22 02:08:38.496747746 +0000 UTC m=+197214.338633126.

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