

potassium propionate

Other names:	potassium propanoate propanoic acid, potassium salt propionic acid, potassium salt
Inchi:	InChI=1S/C3H6O2.K/c1-2-3(4)5;/h2H2,1H3,(H,4,5);/q;+1/p-1
InchiKey:	BWILYWWHXdGKQA-UHFFFAOYSA-M
Formula:	C3H5KO2
SMILES:	CCC(=O)[O-].[K+]
Mol. weight [g/mol]:	112.17
CAS:	327-62-8

Physical Properties

Property code	Value	Unit	Source
ss	142.40	J/mol×K	NIST Webbook
tf	636.90	K	Thermal Behavior of Potassium C1-C12 n-Alkanoates and Its Relevance to Fischer Tropsch
tf	638.30 ± 0.10	K	
tt	638.30 ± 0.10	K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cps	129.50	J/mol×K	298.15	NIST Webbook

Sources

Thermal Behavior of Potassium C1-C12 n-Alkanoates and Its Relevance to Fischer Tropsch: <https://www.doi.org/10.1021/je400874d>
NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C327628&Units=SI>

Legend

cps:	Solid phase heat capacity
ss:	Solid phase molar entropy at standard conditions
tf:	Normal melting (fusion) point
tt:	Triple Point Temperature

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