

# Ethylammonium nitrate

|                      |                                                        |
|----------------------|--------------------------------------------------------|
| Inchi:               | InChI=1S/C2H7N.NO3/c1-2-3;2-1(3)4/h2-3H2,1H3;/q;-1/p+1 |
| InchiKey:            | AHRQMWOXLCFNAV-UHFFFAOYSA-O                            |
| Formula:             | C2H9N2O3                                               |
| SMILES:              | CC[NH3+].O=[N+](O-)[O-]                                |
| Mol. weight [g/mol]: | 109.10                                                 |
| CAS:                 | 22113-86-6                                             |

## Physical Properties

| Property code | Value  | Unit | Source                                                                                 |
|---------------|--------|------|----------------------------------------------------------------------------------------|
| tt            | 232.15 | K    | Liquid range of ionic liquid<br>- Metal salt mixtures for electrochemical applications |

## Temperature Dependent Properties

| Property code | Value | Unit    | Temperature [K] | Source       |
|---------------|-------|---------|-----------------|--------------|
| cpl           | 90.20 | J/mol×K | 298.15          | NIST Webbook |

## Sources

Thermo-physical properties of ammonium-based ionic liquid + Liquid range of ionic liquid - Metal salt mixtures for electrochemical applications: NIST Webbook:

Phase Behavior of N2O and CO2 in Room-Temperature Ionic Liquids [bmim][Tf2N], [bmim][BF4], [bmim][N(CN)2], [bmim][Ac], [eam][NO3], and [bmim][SCN]:

<https://www.doi.org/10.1016/j.fluid.2014.09.031>

<https://www.doi.org/10.1016/j.jct.2019.03.012>

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C22113866&Units=SI>

<https://www.doi.org/10.1007/s10765-011-1150-4>

## Legend

cpl: Liquid phase heat capacity

**tt:** Triple Point Temperature

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