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| Method | URL | Results |
| GET | /pucum/v1/api/validate/{units} | * Valid units   Request: /pucum/v1/api/validate/pg/m3  Status Code: 200  Content-Type: application/json  Response: {"input":"pg/m3","status":"200\_VALID","status\_msg":"The unit is compliant with UCUM.","ucum":"pg/m3"}   * Invalid units, converted into ucum-compliant units   Request: /pucum/v1/api/validate/pg/m\*\*3  Status Code: 200  Content-Type: application/json  Response: {"input":"pg/m\*\*3","status":"400\_UNITS\_TRANSLATED","status\_msg":"The input has been translated into a UCUM-compliant unit.","ucum":"pg/m3"}   * Invalid units, mapping between provided input and its related ucum not found in the system   Request:  Status Code: 404  Content-Type: application/json  Response : {"input":"[pptv]","status":"404\_INVALID","status\_msg":"Error processing unit '[pptv]': The unit '[pptv]' is unknown' at position 0","ucum":null} |
| GET | /pucum/v1/api/quantity/{units} | * Valid ucum units - Returns description of the provided {ucum-compliant} code including canonical unit, verbose canonical unit, dimension and quantity.   Request: /pucum/v1/api/quantity/pg/m3  Status Code: 200  Content-Type: application/json  Response: {"input":"pg/m3","status":"201\_QUANTITY\_FOUND","status\_msg":"The quantities (UCUM and/or QUDT) are available.","ucum":"pg/m3","fullname":"(picogram) / (meter ^ 3)","canonicalunit":"g.m-3","dimension":"M.L-3","ucumQuantity":null,"qudtQuantities":["Density"],"verbosecanonicalunit":"Mass &middot; Length<sup>-3</sup>"}   * Invalid units, converted into valid ucum and then return related quantities.   Request: /pucum/v1/api/quantity/pg/m\*\*3  Status Code: 200  Content-Type: application/json  Response {"input":"pg/m\*\*3","status":"201\_QUANTITY\_FOUND","status\_msg":”The quantities (UCUM & QUDT) are available.","ucum":"pg/m3","fullname":"(picogram) / (meter ^ 3)","canonicalunit":"g.m-3","dimension":"M.L-3","ucumQuantity":null,"qudtQuantities":["Density"],"verbosecanonicalunit":"Mass &middot; Length<sup>-3</sup>"}   * Valid unit expression in terms of UCUM, but its related quantities cannot be determined. Therefore, a partial response is returned.   Request: /pucum/v1/api/quantity/ug/g  Status Code: 200  Content-Type: application/json  Response : {"input":"ug/g","status":"206\_QUANTITY\_NOT\_FOUND","status\_msg":"The quantities (UCUM & QUDT) are not available.","ucum":"ug/g","fullname":"(microgram) / (gram)","canonicalunit":null,"dimension":null,"ucumQuantity":null,"qudtQuantities":null,"verbosecanonicalunit":null}   * Invalid units   Request: /pucum/v1/api/quantity/[pptv]  Status Code: 404  Content-Type: application/json  Response : {"input":"[pptv]","status":"404\_INVALID","status\_msg":"Error processing unit '[pptv]': The unit '[pptv]' is unknown' at position 0","ucum":null,"fullname":null,"canonicalunit":null,"dimension":null,"ucumQuantity":null,"qudtQuantities":null,"verbosecanonicalunit":null} |
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